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The CHEMIST AND DRUGGIST

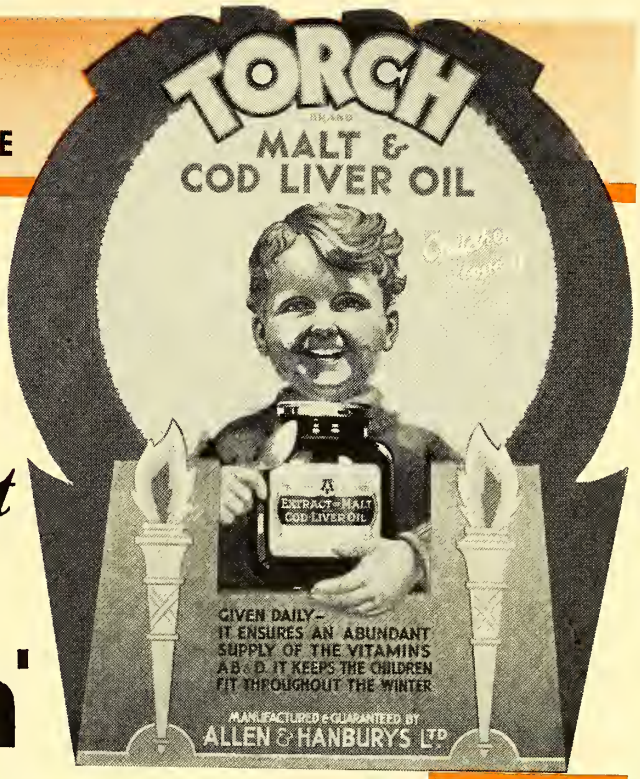
Established 1859 28 Essex Street, Strand, London, W.C.2 *Registered as a Newspaper*

No. 2900
VOL. CXXIII

SEPTEMBER 7, 1935

Annual Subscription (with Diary) 20/-. *Single Copies* 9d.

This attractive cut-out, in colours, is supplied FREE OF CHARGE



You should contract for

'Torch' BRAND MALT & OIL

BECAUSE

1—It is the finest quality product offered to the public.
2—We manufacture the Cod-Liver Oil as well as the Malt Extract.
3—Its flavour is delicious, and time has proved it to be "the children's choice."
4—It is supplied to chemists only. 5—Prices are protected.
6—It is manufactured and guaranteed by

ALLEN & HANBURYS LTD., LONDON, E.2

Telephone: Bishopsgate 3201 (12 lines) Telegrams: "Greenburys Beth London"

Ask our Representative, or write to us, for Contract Prices.

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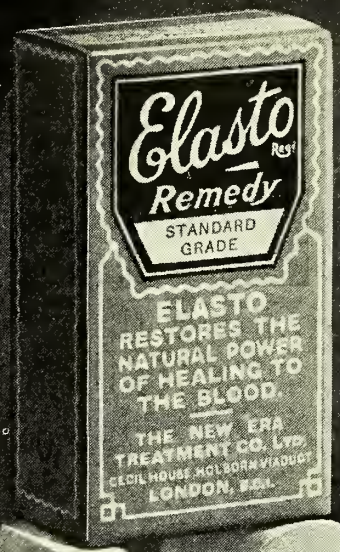

Quality
AND
LASTING
STRENGTH
SEND FOR TERMS
4 FLUID OUNCES
PARKE-DAVIS
HYDROGEN
PEROXIDE
PARKE, DAVIS & CO.
LONDON
Hydrogen
Peroxide
PARKE, DAVIS & COMPANY, 50 BEAK STREET, LONDON, W.1.

A Biological Remedy: In Tablet Form

for Veins, Arteries and Heart

for

- VARICOSE VEINS
- VARICOSE ULCERS
- ECZEMA, PILES
- HEART TROUBLES HIGH BLOOD PRESSURE, Etc.



ELASTO

A LIVELY DEMAND EVERYWHERE FOSTERED BY CONSISTENT ADVERTISING

Day by day—year by year—people throughout the country see Elasto advertising. Every week shows bigger sales. Thousands of chemists, realising that Elasto is a non-competitive line are recommending this highly successful product to all customers suffering from Varicose Veins, Bad Leg and all circulatory disorders, and doing a brisk repeat business. Our large scale advertising will move your stock with greater speed if you will show Elasto on your counter or in your window. Take your share of this better class trade now!

STILL MORE EXTENSIVE ADVERTISING NOW BEING PLANNED

Obtainable through your Wholesale House. Further particulars, showcards, &c., from the proprietors.

SHOW ELASTO — IT SELLS ON SIGHT!

RETAIL 5/- PER BOX (One Month's Supply) WHOLESALE 45/- A DOZ. P.A.T.A.

THE NEW ERA TREATMENT Co. Ltd.,

(DEPT. C.D.), CECIL HOUSE, HOLBORN VIADUCT, LONDON, E.C.1

C & D

A A

Great Winter —

for

CLOTABS

BEGINS THIS MONTH



ORDER YOUR STOCKS NOW!

Advertising Campaign

In 3 months CLOTABS became a National Seller!

THIS WINTER'S DEMAND WILL BE HEAVIER THAN EVER!

Last year we advertised Clotabs on a national scale for the first time—and, within 3 months, the line was thoroughly established and selling well. And now this year, advertising for Clotabs will be on an even more ambitious scale than before. For our advertising schedule will include every worthwhile national and provincial newspaper and magazine supplemented by the great force of radio publicity.

Sales will undoubtedly increase in volume as the season progresses, for Clotabs help to resist colds and influenza, put on firm flesh, and constitute a Winter standby and tonic of real merit. Put in your display now and get the full benefit of this powerful campaign from its commencement.

● *Chemists who buy direct from us make*

14/- Profit per dozen (large size) **6/- Profit** per dozen (small size)

● Please write for particulars of our profitable direct buying terms. It is well worth while to buy on these advantageous terms for they guarantee you a profit of 33⅓% on turnover—a generous margin for a nationally advertised line.

MACLEANS LIMITED

GREAT WEST ROAD

BRENTFORD Telephone: EALING 6616 **MIDDLESEX**



We manufacture any combination of Malt Extract, Malt Extract and Cod Liver or Halibut Liver Oil. Suitable for any climate. The best Barley obtainable, finest oils, modern plant backed by specialised experience enable us to claim that ours is the "no trouble" Malt Extract. A choice selection of labels and show matter are available. Interesting prices and samples on request.

JEFFREYS MILLER & CO.

LIMITED

Leyland Mills, Wigan

TELEPHONE: WIGAN 2327 TELEGRAMS: MALTUM, WIGAN

73A OURHAM RO., HOLLOWAY, LONDON, N.7. PHONE: ARCHWAY 3627

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[*Continued overleaf.*

QUALITY PRODUCTS



GALLSTONES

Any sufferers from this distressing malady will appreciate your recommendation of

TAB. CHELIDON CO.
(H. H. & CO.)

a well-tried remedy for dissolving Gallstones.
This reliable Cholagogue and urinary antiseptic is an admirable preparation affording endless opportunity to enterprising chemists.

PRICE IN BULK : 32/- per 1,000 net.

Samples and literature on request

HOUGH, HOSEASON & Co. Ltd.

MANUFACTURING CHEMISTS

Bridge Street, MANCHESTER

'Phone: BLAckfriars 3895/6, 7435 'Grams: "Salicylate, Manchester."

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When you tender for **Disinfectants**

to Hospitals, Public Institutions, Local Councils, &c.

REMEMBER that

BURT, BOULTON & HAYWOOD LTD. Managers to the **PRINCE REGENT TAR COMPANY, LTD.**

give you special terms for contracts.

Carbolic Disinfecting Fluids containing 3% to 80% Tar Acids.
White Disinfecting Fluids—miscible in salt, fresh or brackish water, Co-efficients 10/12, 18/20, 20/22, 24/26.
Lysol B.P. Quality. Pine Disinfecting Fluids.
Pink Carbolic Disinfecting Powders containing 5% to 20% Tar Acids.
Creosote Disinfecting Powders containing 5% to 20% Tar Acids.
Carbolic Disinfecting Fluids, Rideal Walker Co-efficients 2 to 20.
Liquid Carbolic and Cresylic Acid, Dark 95/97% and Pale 97/99%.
Sulphur Candles. Formaldehyde (Formalin) 40% Solution.
Formaldehyde (Formalin) Tablets. Liquid Soaps.
SOLUBLE Carbolic or Pine Blocks for road watering vans.
Carbolic Weed Killer, etc.

Tar Acids and Rideal Walker Co-efficiency guaranteed. May be sold by Chemists and Druggists under own name.

Special Disinfectant Fluids approved by the Ministry of Agriculture under the "Diseases of Animals Acts." May be packed and sold by Chemists under own name.

SAMPLES AND PRICES ON APPLICATION TO

PRINCE REGENT TAR COMPANY, LTD.

(Managers: BURT, BOULTON & HAYWOOD, LTD.)

BRETTENHAM HOUSE, WELLINGTON STREET, STRAND, LONDON, W.C. 2

Phone: Temple Bar 5801 (5 lines) *Telegrams: "Burboul, Rand, London."*

JUVIGOLD
DUCTLESS GLAND TONIC

NOW IN



TABLET FORM

After months of research, we have perfected a means of preparing Juvigold in tablet form without losing any of the vital tonic properties of the liquid.

The opportunity for even bigger sales offered by this new form of Juvigold will not be lost on the thousands of chemists who have taken advantage of the phenomenal trading possibilities presented by JUVIGOLD.

Send right away for details of the coming big push that will send Juvigold sales soaring still higher—Juvigold is the safest, most profitable and quickest selling line a chemist can handle.

Prices

3/- 5/- 12/-
27/- 45/- 108/-
P. A. T. A.

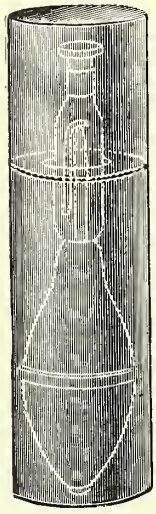
USUAL WHOLESALER OR DIRECT

The MIDDLESEX LABORATORY of GLANDULAR RESEARCH LTD.
21 - FARRINGDON AVENUE - LONDON - E.C.4
TELEPHONE: CENTRAL 1901 TELEGRAMS: GLANDOC, LUD, LONDON

JUVIGOLD — the Year's Biggest Trade Success

From the "DEPENDABLE" SERIES of ATOMIZERS

(ENTIRELY BRITISH MANUFACTURE)

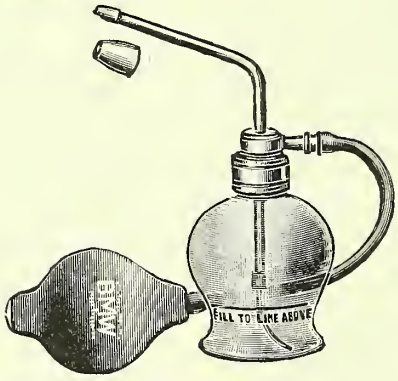


No. 40

A POCKET ATOMIZER IN STOUT CYLINDRICAL CARRYING CASE

EACH - **1/8**
DOZEN **19/-**

SUITABLE FOR EITHER AQUEOUS, ALCOHOLIC OR LIGHT OILY SOLUTIONS



No. 8. Atomizer for Throat or Nose, for use with oil or water. Made with a solid metal screw mount, detachable metal nasal mount, and plug-in metal mount to bellows. Each **3/2**
Spare Glass Bottles with solid N.P. screw cap. Each **6d.**

TANNIC ACID SPRAY OUTFIT FOR BURNS

No. 13. Consisting of a 2-oz. Amber Bottle, Vulcanite Spray Mount, complete with Bellows. And 25 Tannic Acid Compound Tablets. Each **3/6**

BRITTON MALCOLM & WAYMARK LTD.
38 Southwark Bridge Road, S.E.1
Phone : Waterloo 4874 (three lines)

Latest Camilatone News!

Still more

MILLIONS OF ADVERTISEMENTS FOR *Camilatone* LUSTRSET

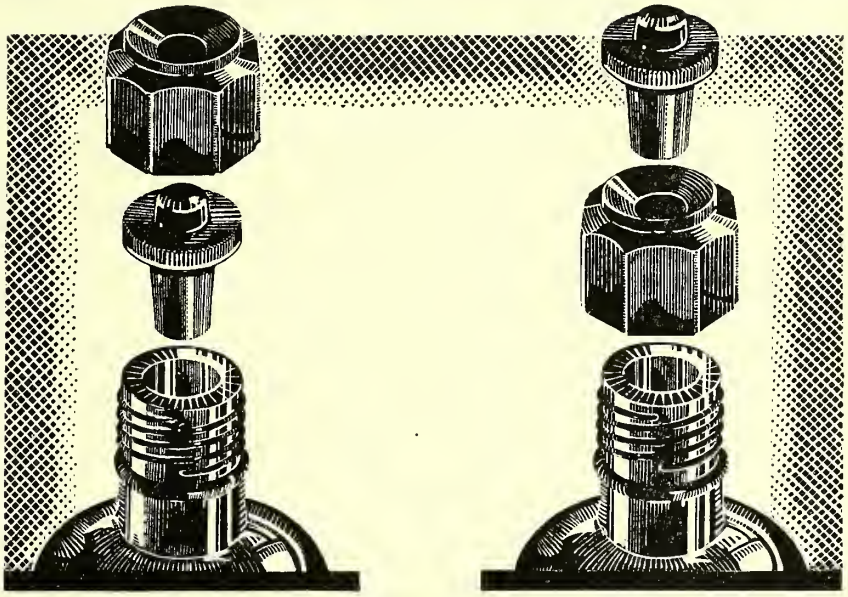
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Get Busy!



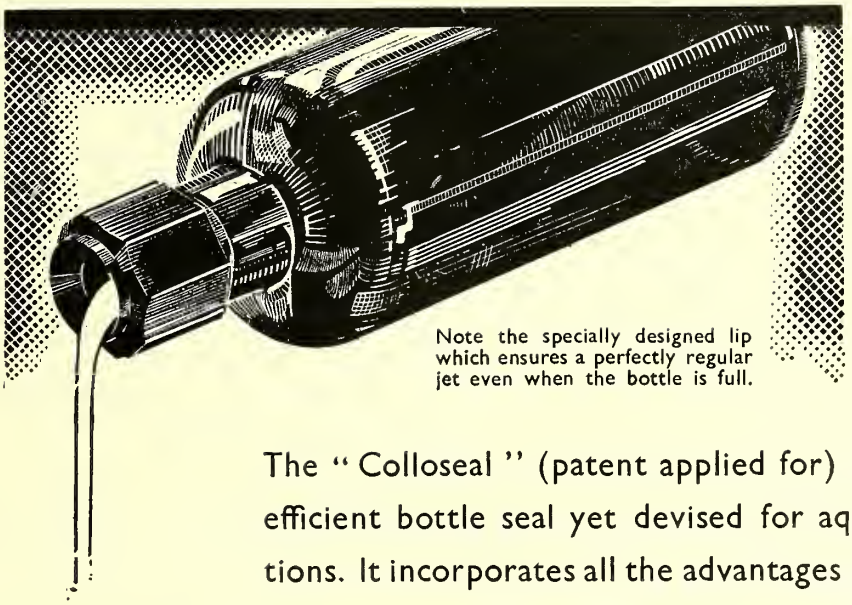
CAMILATONE LTD., WELSH HARP, HENDON, LONDON, N.W.9

THE NEW COLLOSEAL CAP

now Issued with all aqueous Collosol solutions.



On the left the diagram shows the "Colloseal" as fitted when the packing leaves the Laboratories; on the right the stopper and screw cap in reversed order i.e. as an ordinary, but dust-proof, stopper for every-day use.



Note the specially designed lip which ensures a perfectly regular jet even when the bottle is full.

The "Colloseal" (patent applied for) is the most efficient bottle seal yet devised for aqueous solutions. It incorporates all the advantages of a stopper and screw cap without the disadvantages of either.

THE CROOKES LABORATORIES (British Colloids Ltd.) PARK ROYAL, LONDON, N.W.10.

T.G.S.



"An asset to the man who foots the bill"

In this printing business of ours we like to see all our efforts a little above the ordinary, for there is a particular pleasure and satisfaction in the effort which takes a man out of convention and out of himself. When a man takes his coat off to a job and tackles it with enthusiasm you know he is going to be happy, and the result is the kind of printing which is a credit to all concerned, and a distinct asset to the man who has to foot the bill. It should not be necessary, of course, to ask if a man likes his work—the spirit of unbounded enthusiasm ought to show it. A man should be so much in love with his job that he finds his greatest delight in it. He will love it for its own sake. He will see no difference between the pleasure he gets out of his job and that which he gets out of his spare hours. There can be no thrill or joy of achievement in work which has been carried out in a half-hearted and careless manner, and the man who has not discovered the joy of putting his heart and soul into every job he undertakes to do does not know the first principle of progress and success. We make a point of always trying to inspire the members of our own staff with the spirit of service and true craftsmanship. They love their job and they like to do it as well as they possibly can. They also love getting to know more and more about it, and their enthusiasm and determination to produce printing which will speak well of the customer and interest people in what he has to sell is expressed and visible in every transaction. That is probably one of the reasons why so many people like to tell us what jolly good printing we are producing for them.

Ideas and rough suggestions are prepared free and without any obligation

THOMAS **WAIDE** & SONS LTD

KIRKSTALL HILL LEEDS 5

RETAILERS

and the

DAILY EXPRESS

Encouraged last year by the 15,000 Retailers who co-operated in its

"HELP YOUR NEIGHBOUR" CAMPAIGN

the "Daily Express" has planned a similar Campaign to be carried out this autumn on even bigger lines.

The immediate response of Retailers throughout the country to last year's Campaign proved that the "Daily Express" is recognised by them as a powerful factor in stimulating sales.

Retailers who co-operated testified in no uncertain terms to the benefits they derived from the "Help Your Neighbour" Campaign. Hundreds of letters were received stating that as a result of their co-operation their sales showed considerable increases.

Now the chance has come again for every retailer in the country to benefit. This year's Campaign will be the biggest scheme ever carried out to increase retail sales.

Enormous publicity will be given it in the editorial columns of the "Daily Express" and the public will be constantly urged to "spend a little more". Retailers desiring to co-operate will be provided with attractive Window Bills and Posters free of charge.

"DAILY EXPRESS"

National Shop Window Display Contest

will form, as last year, an important feature of the Campaign. There is no entrance fee

MANY BIG CASH PRIZES

The "Daily Express" is offering £1,500 in cash prizes together with three silver cups for the best window displays submitted by Retailers. Prominent manufacturers have again offered substantial additional cash prizes for the best displays of their products. The total cash awards offered in the Contest last year reached the sum of £4,500.

By reason of the tremendous publicity that will be given the whole Campaign, every Retailer who shows the "Daily Express" Posters must benefit by increased sales, and, if he competes, may win one of the many cash prizes.

FILL IN and POST THIS COUPON NOW—and BENEFIT

Please send me without obligation, full details of the "Daily Express" "Help Your Neighbour" Campaign and the "Daily Express" Nationa Shop Window Display Contest.

Name.....

Address.....

.....

Trade..... CD.

Post under ½d. stamp to Campaign Manager, "Daily Express," Fleet Street, London, E.C.4



S&S

Stocked in both designs for Epsom and Glauber Salts in chocolate, blue and green on white, with your name and address.

To hold 4 oz. and 8 oz.

PARCHMENT BAGS TO FIT.



● PACKED DRUGS MEAN QUICK SERVICE ●

● QUICK SERVICE MEANS GOOD RETURNS ●

S & S PRINTED CARTONS WILL HELP YOU TO INCREASE YOUR SALES

Write for samples and prices—

SUTTLEY & SILVERLOCK LTD.

LABEL DEPARTMENT

ANDOVER - HANTS



The preference of women for Southall's Sanitary Towels brings steady sales all the year round.

The "ORIGINAL" and most popular.

The "CELTEX" soluble, easily disposed of.

The "K" made entirely of absorbent cotton wool, with very soft cover.

The "COMPRESSED" for travelling. A very popular line.

SOUTHALLS (BIRMINGHAM) LTD.

BATTLE'S VERMIN KILLER

Of all Patent Medicine Houses at **3/-**, **5/-** and **9/-** per dozen.

In packets at **5d.**, **9d.** and **1/3** each. (P.A.T.A.)

The *sure* destructive agent which may be confidently recommended by Chemists for quick clearance of rats and mice.
(Users' testimonials on request.)

Prepared only by

J. C. M. BATTLE, Ph.C., LINCOLN

It will pay you to buy DIRECT from the Manufacturers

Dania *REGD. BRAND*

COMPRESSED TABLETS

If you are wanting any variety of compressed Tablets—true to formula—of the purest materials—finest finish and at lowest prices consistent with quality, then send an enquiry to :—

RICHARD DANIEL & SON, LIMITED

Phone • Derby 2222 (3 lines) • Grams • Dania, Derby • MANSFIELD Rd. DERBY •

MAKERS TO THE TRADE—ESTABLISHED 1860

A BEST SELLER

for Beauty and Toilet Requisites

MODERN WEEKLY is read by the engaged girl and the young wife — the women who are most particular about their appearance. That is why this splendidly produced weekly is one of the best advertising media for all Beauty and Toilet Requisites.

The Beauty Feature conducted by Miss Carol Lynne is one of the most helpful in any paper today and, as her mail bag proves, is widely read by women whose constant aim is to look their best.

TWO SPECIAL ISSUES

— your opportunity to test

You could not have a better opportunity to test this splendid "puller" than is presented with these 2 Gift numbers. They will appeal to the "beauty conscious" on account of the special insets which are being given. Note the dates.

£25 PER PAGE

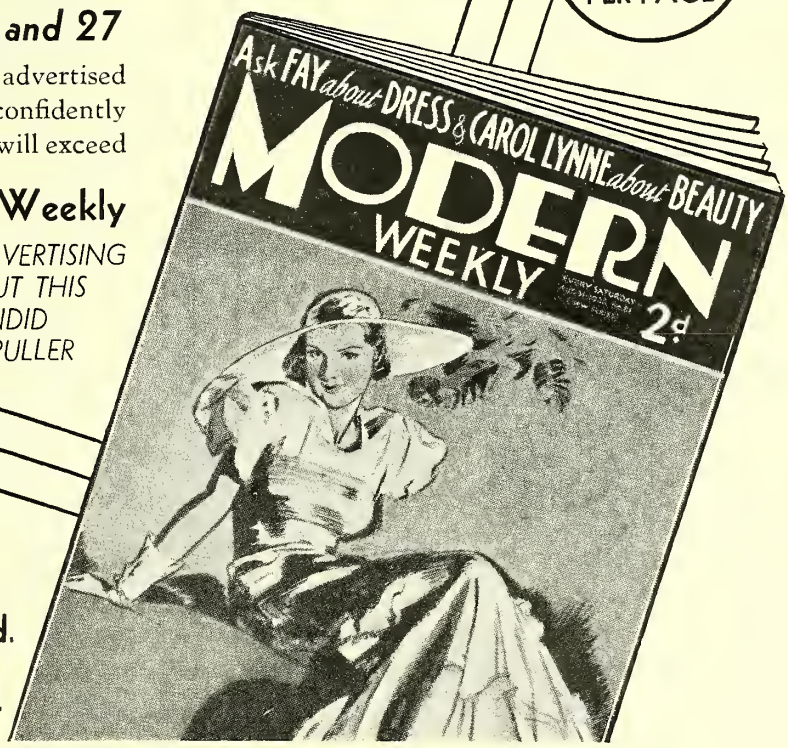
OCTOBER 19 and 26

Press Days—SEPT. 20 and 27

These two issues will be well advertised in the National Press and it is confidently anticipated that the circulation will exceed

160,000 Copies Weekly

ASK YOUR ADVERTISING AGENT ABOUT THIS SPLENDID PULLER



Specimen Copy etc. from

CHAS. E. MANDER
Advertisement Manager
The Amalgamated Press Ltd.
The Fleetway House
Farringdon St., London, E.C.4

MERIT won Anzora the first Gold Medal

and **MERIT** wins thousands of new Anzora customers each year!



Ever since official recognition, by the award of the first Gold Medal, was conferred upon ANZORA as the finest of all hair creams, this famous preparation has maintained its position of unquestioned supremacy. To millions of men and boys throughout the country Anzora is a vital necessity—a toilet requisite that simply can NOT be dispensed with. To thousands of chemists and hairdressers Anzora is a steady source of profit—a proved and trusted product that deserves all the recommendation and display that they can give it.

TRADE TERMS

ANZORA CREAM and VIOLA	ANZORA BRILLIANTINE
9d. size .. 6/- per doz.	1/- bottle .. 8/- per doz.
1/3 size .. 10/- per doz.	**ANZORA WAVE SETTING LOTION**
2/3 size .. 18/- per doz.	6d. size .. 4/- per doz.
	1/3 size .. 11/- per doz.

ANZORA

MASTERS THE HAIR

ANZORA PERFUMERY CO., LTD., LONDON, N.W.6

Wanie FOREIGN
Wanie FOREIGN AUTO TYPE
Wanie FOREIGN registered
9/-100
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The Blade for Every Razor!

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146 THEOBALDS ROAD, W.C.1
and at
16 WITHY GROVE, MANCHESTER

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Wholesalers are invited to apply for Trade Terms.

3/9 GROSS BRITISH BLADES

TIM

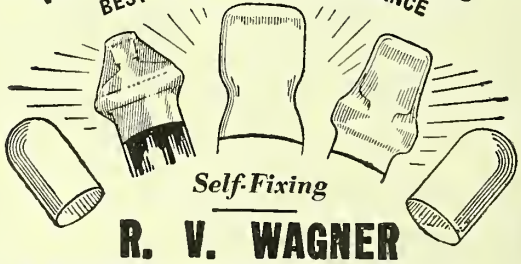
THE FAMOUS TIM REG. RAZOR BLADE MADE IN ENGLAND

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NOW BRITISH MADE

WAGNER'S DRY BOTTLE CAPS

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THE MOST COMPETITIVE MANUFACTURERS IN THIS COUNTRY

MUNDET CORK PRODUCTS, LTD.

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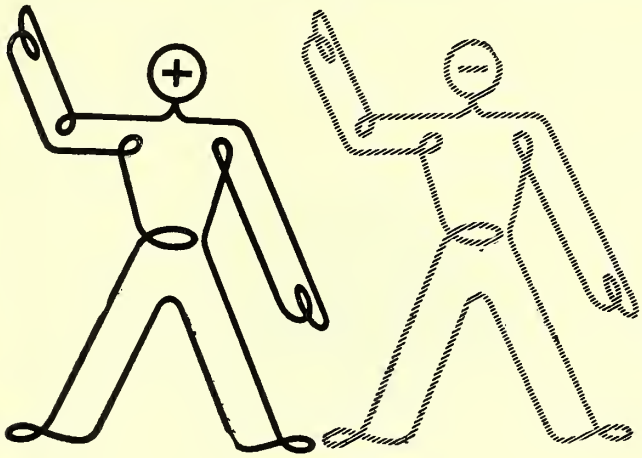
Telegrams: MUNDETCOMP, BERM, LONDON

Telephone: HOP 2043-4-5



BLUE GILLETTE

ADVERTISING CAMPAIGN



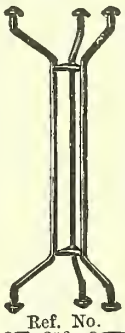
again extended!

The large space advertisements which have been appearing so regularly in the leading National and Provincial papers since the early part of the year are now extended to September.

Blue Gillettes are making history! Sales of these electrically tempered blades have eclipsed record after record. Never has a blade increased in popularity with such amazing rapidity as the Blue Gillette. From this success the Trade is enjoying a regular and constantly growing income. Concentrate upon Blue Gillettes and increase *your* turnover in this profitable business by arranging window and counter displays to link up with the advertising. Let us know if you would like additional showcards for this purpose

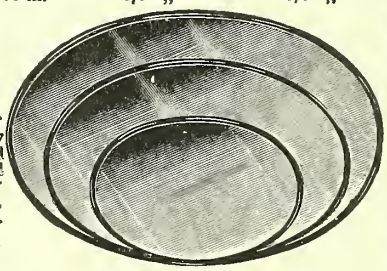
GILLETTE INDUSTRIES LTD.
197-207 CITY ROAD, LONDON, E.C.1

KING'S
FOR
SHOPFITTINGS



Ref. No. H 3249 Round Section Metal Display Pedestals, fitted with Rubber Studs at Top and Bottom. Stocked in the following sizes :—

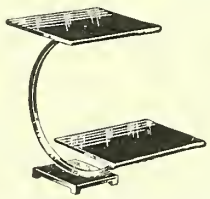
Height	Brown Bronze Finish	Chromium Plate Finish
9-in.	1/3 each	2/6 each
12-in.	1/6 „	3/- „
15-in.	1/9 „	3/9 „
18-in.	2/3 „	4/6 „
21-in.	2/9 „	5/3 „
24-in.	3/3 „	6/- „
30-in.	3/9 „	7/6 „



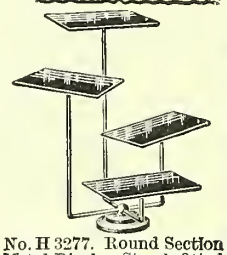
Ref. No. OK 256 First Quality Clear Glass and Black Opal Glass, Display Ovals, ¼" thick, polished edges. Stocked in the following sizes :—

Size	Clear Glass	Black Opal Glass
9" × 5"	1/4 each	1/5 each
10" × 7"	1/5 „	1/6 „
12" × 9"	1/6 „	1/9 „
14" × 10"	2/2 „	2/8 „
16" × 9"	2/6 „	3/- „
18" × 12"	3/6 „	4/3 „
20" × 15"	4/- „	5/3 „
24" × 18"	5/9 „	7/3 „

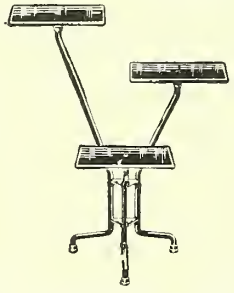
We will be pleased to forward our complete catalogue of Pharmacy Fittings No. 1013. *Post Free on Application.*



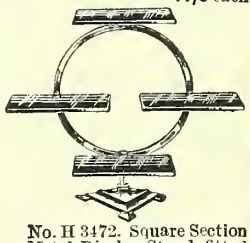
No. H 3278. Square Section Metal Display Stand, fitted with two Black Opal Glass Shelves, 10" × 6". Mounted on a square base. Height overall, 12". Brown Bronze Finish 11/3 each Chromium Plate Finish 13/6 „



No. H 3277. Round Section Metal Display Stand, fitted with four Black Opal Glass Shelves, 10" × 6". Mounted on a Double Circle Base. Height overall, 21". Brown Bronze Finish, 14/3 each Chromium Plate Finish, 17/3 each



Ref. No. H 3275. Square Section Metal Display Stand, fitted with three Black Opal Glass Shelves, 7" × 5". Height overall, 19". Brown Bronze Finish 11/3 each Chromium Plate Finish 13/6 „



No. H 3472. Square Section Metal Display Stand, fitted with four Black Opal Glass Shelves, 9" × 5". Height overall, 24". Chromium Plate Finish, 30/- each

J. C. KING LTD.
42-60 GOSWELL RD., LONDON, E.C.1
PHONES : CLERKENWELL 2316 (Private Branch Exchange)

LABELS

There's many a Slip—

Under the above heading we had an advertisement in the Special Issue on June 29th.

The result confirmed our opinion that the average Chemist does appreciate the fact that it helps his business to have a well-designed and excellently-printed label.

We received orders and enquiries from England, Scotland, Ireland and Wales and abroad—so many that they almost wrecked our 14 days delivery scheme.

Having overcome that, we shall continue to supply our customers with labels that will be a credit to them and to us, at prices that compare more than favourably with any in the trade. Try us. A pleasure to submit rough suggestions.

All our labels are coated with pure gum.

STEEL, ADAMS & CO.
Gaythorn Works
JORDAN STREET, MANCHESTER, 15

1889 **Reliance** 1935

REGISTERED TRADE MARK

"WE MAKE AND SELL
THE SECOND BEST
MOULDED SEAMLESS HOT WATER BOTTLES
IN THE WORLD"

This statement appears to be true because all our competitors say they make the best—and we are too busy to argue

Please write for a range of six saleable samples and judge for yourself



NEW "HAMMERED METAL" DESIGN. REINFORCED EDGES. AN UP-TO-DATE PATTERN FOR COMPETITIVE TRADE.

SOME REASONS WHY YOU SHOULD STOCK AND SELL RELIANCE HOT WATER BOTTLES

BECAUSE WE GIVE YOU

EXPERIENCE as the original manufacturers in England of the seamless moulded Bottle.

ASSURANCE that every Bottle is properly made and tested before sale, and fully guaranteed for service.

CHOICE of the widest range of designs available today, made in colours in general demand. Retail prices from **1s. 6d.** to **7s. 6d.** each, ensuring your ability to meet local conditions and every taste.

QUALITY AND COLOUR at as high a point as any line on the market. Our Bottles are made from selected grades of rubber, combined with laboratory-tested compounding and reinforcing agents, best nickel-plated stoppers in semi-hard rubber closure, wired and cemented into the bottle, which method has been proved the most efficient and sure, over and over again.



"BRITISH WARM" EXTRA LARGE SIZE & HEAVY WEIGHT. SIDE HANDLE. RETAILING AT **3/11.**

AWARDED THE CERTIFICATE OF THE INSTITUTE OF HYGIENE IN RESPECT OF THE RELIANCE "VITAL" HOT WATER BOTTLE

RELIANCE RUBBER COMPANY, LTD.

ESTABLISHED 1889

CREMORNE WORKS, LOTS ROAD, CHELSEA, LONDON, S.W.10

Telegrams: "DOORSTOP," FULROAD, LONDON Cables: BENTLEY'S, or A.B.C. (5th Edition) Telephone: FLAXMAN 4263, 6200

The POCKET TIN that PROFITS your POCKET

Flexoplast Regd.

Flexible

PLASTER DRESSING

This handy first-aid dressing provides the ideal relief and protection for all minor wounds. Keep it well displayed — it is selling in large quantities everywhere.

In pocket tins at 3d., 6d. and 1/-

From all Wholesale Houses

Publicity matter direct from the Manufacturers—

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T. F.59

THE 'ACCOSON' TRADE MARK

"EASY SET"

the Clinical with the highest reputation

Accoson "Easy Set" are the most scientifically accurate thermometers made. Patented over 30 years ago, they are still the finest thermometers obtainable and are chosen by all discriminating Doctors

- *No trouble in shaking down*
- *Clear reading*
- *Lifetime Accuracy*

When next ordering Clinicals ask your Wholesale House to supply 'ACCOSON' made

Customers name engraved on back of thermometers at no extra cost

NOW SUPPLIED IN INDIVIDUAL CARTONS

Obtainable from all leading Wholesale Houses

A·C·COSSOR & SON (THERMOMETERS) LTD

ACCOSON WORKS · VALE ROAD

FINSBURY PARK · LONDON, N.4

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Advertised from January to December and never fails to give satisfaction. Also SU-CAN *Soluble* for instant disposal.

From your Wholesale House, please.

ROBINSON & SONS LTD. CHESTERFIELD & LONDON



GOOD HOUSEKEEPING
WOMAN'S JOURNAL
WELDONS LADIES JOURNAL
WOMAN & HOME

Pharmal in the Women's Press



Magazines with a combined minimum circulation of 900,000, and making a direct appeal to women with the means to buy, will be used consistently during the coming season, to attractively advertise the Pharmal Hot Water Bottle. This advertising, and the intrinsic merits of the bottle itself, will mean a greater demand for the Pharmal than ever before. Profit from this Pharmal publicity. Place the Pharmal in prominent positions in **your** premises.

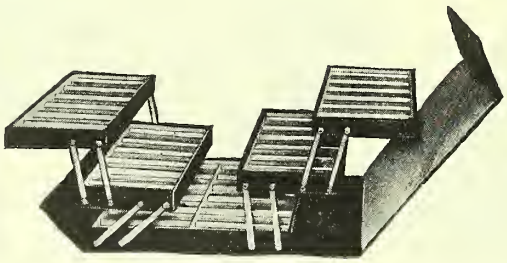
Each Bottle guaranteed and packed in an attractive display carton. Fixed retail price 2/11. Supplied only through Wholesale Houses.

THE LEYLAND & BIRMINGHAM RUBBER CO., LTD., LEYLAND, LANCS.

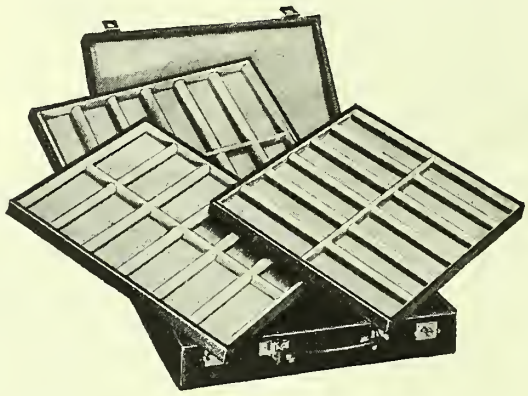
Pharmal

HOT WATER BOTTLE

CONVENIENCE IN STOCK-KEEPING AND DISPLAY



No. 3188



No. 3189

No. 3188.—4 Tier Display Case, covered Black or Blue Linen, Chromium Struts. Holds 36 frames, can be displayed flat or as shown. Size closed 13¾″ × 11½″ × 3½″. Apricot Velvet lined. Press Button Fastenings - - - - - - - - - - **34/6 each**

No. 3189.—3 Tray Carrying Case, Black Cloth covered, Handle with Chromium Fittings. Holds 36 frames. Apricot Velvet lined Trays. Size closed 14½″ × 12″ × 3¾″ - **44/6 each**

JOHN BAIRD & SONS, *Wholesale & Manufacturing Opticians,*

Telephone & Extensions: CENTRAL 541
Telegrams & Cables: SPECTACLES, GLASGOW (A.B.C. CODE)
ESTABLISHED 1889

70 MITCHELL STREET,
GLASGOW, C.1

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FOR THE
S.M.C., B.O.A. and N.A.O. DIPLOMA Examinations
Particulars :—
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50 HIGH STREET, BARNET, LONDON, N.

F. MAUND & E. BERG (SHOWCASES) Ltd.
SHOPFITTERS & SHOPFRONT BUILDERS
175/9 OLD STREET, LONDON, E.C.1
Telephone : Clerkenwell 1782/3
are offering for sale, at competitive prices, an extensive and exceptionally full range of Chemists' Fittings, Second-hand and New.

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This popular and specially planned course for the Qualifying Examinations of the Pharmaceutical Society has been brought up to date. A noteworthy feature is the opportunity it affords for periodical revision. 136 pp. 5/- net.
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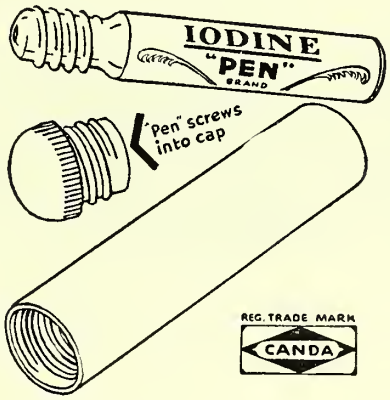
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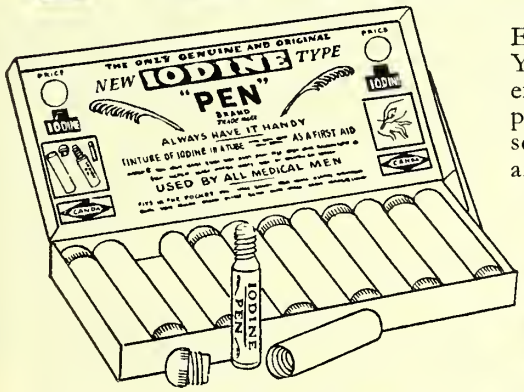
Here is an Iodine Pen which introduces a new standard of value—a new idea in compactness. Though so amazingly cheap this new "Canda" product lacks nothing in appearance or in efficiency. It has the same attributes of its predecessor, the original "Canda" Iodine Pen. It provides clean, handy, ever-convenient first-aid at a price which opens up a market so extensive and productive that no chemist can afford to ignore it.

Iodine

This new "Canda" Pen is unique in its construction. It consists of (*a*) the actual glass "Pen" for direct application, (*b*) an attractively coloured case, and (*c*) a "two-in-one" moulded screw top which serves both as a cap for the glass containers and the case. This new construction makes the iodine quickly available, yet perfectly safe and completely free from leakage.



"Pen" BRAND



Also supplied for MOSQUITO Application. Each in distinctive coloured container. Packed in attractive boxes for counter display—one dozen per box.

Every customer can spare an extra threepence. You will realise that there is an immediate and extensive market for such a product. Here is the pen which will soon be in everyone's pocket. No sooner seen than sold! The ideal "pick-up" article for the counter!

for 3d

PRICES : Single Boxes - - 2/3 per doz.
3 dozen - - - 2/0 per doz.
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These prices are for Great Britain and Northern Ireland only

Also the original "CANDA" Iodine Pen in metal Tube. (Protected retail price 6d.)

Manufactured and patented only by **CLAY & ABRAHAM Ltd., Liverpool,** makers of the original Iodine "Pen" (Brand)—and can be obtained from your usual wholesaler. Also from **Thomas & Linton, Ltd., 4 Gray's Inn Road, London, W.C.** Export Agents except for New Zealand and Australia :—**W. A. Jones Ltd., Maryland Street, Liverpool**



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IN BULK OR READY PACKED IN 1½ OZ. & 8 OZ. POTS

A DELIGHTFUL TOILET CREAM UNDER YOUR OWN NAME

"Ceraton" is a new "all-purposes" non-greasy, antiseptic toilet cream made from an entirely new base. It is supplied either in bulk (Perfumed or unperfumed) for re-packing, or in dainty glass jars, 1½ oz or 8 oz., under "Ceraton" label or blank for chemist's own name. Prices and sample jar free on request.

TRAGASOL PRODUCTS Ltd., HOOTON, WIRRAL, Cheshire



NOBBY'S EXTRACT

SUMMER IS HERE—HOW ARE YOUR STOCKS?

You can increase your turnover and profits by displaying this seasonal line. Home Brewing is definitely in favour—get your share of the trade. May we send you a free sample tin and literature?

NOBBY'S PRODUCTS LTD., CHEAPSIDE, HYDE, Ches.

Eau de Cologne . . . Lavender Water

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1/4 size, per doz. 12/-
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The SHADEINE Co., 49 Churchfield Road, Acton, W.3.

INCREASE YOUR DEVELOPING AND PRINTING SERVICE!

MAKE USE OF OUR REALLY USEFUL SERIES OF D. & P. BOOKS. ALSO OUR PRINTED AIDS TO SELLING INTERESTING RANGE OF SAMPLES POST FREE

BURALL BROS., WISBECH, Cambs.

We shall welcome your enquiries for

SHAVING CREAMS

POMADE HONGROISE

POWDERED SOAP

SHAMPOO POWDERS

A. GIDLOW & CO. BROOM LANE, LEVENSHULME, **MANCHESTER**

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We have been supplying Contraceptives of **all kinds** now for over **30 years** and our well-known **Safeguard & Empire** Brands are still as popular as ever. THESE FACTS SPEAK FOR THEMSELVES and prove the confidence we have secured which is the fundamental principle in selling these goods.

All our Brands are guaranteed to be of the finest manufacture.

Write for complete Price List and Samples.

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Thousands of Poultry Farmers use CHLOROZONE and The PUTNAM GIZZARD CAPSULES at least once a year. Are you supplying them?

CHLOROZONE. *The internal disinfectant.*

PUTNAM GIZZARD CAPSULES for worms in poultry.

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Write for publication "FARMING LIVE STOCK," post free.

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LARGEST GROWER IN ENGLAND

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THE CHESTNUTS FARM, EYE, SUFFOLK

Are you stocking

YESTAMIN?

Dried Yeast in its most concentrated and most convenient form—powder and tablets. Generous terms and good discounts. ***Write today to:***

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Display material will be sent with any trial order.

RED BONE MARROW
CHEMICAL FOOD
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Potter & Clarke's Children's Tonic, prepared from Red Bone Marrow, Chemical Food and Malt Extract, provides you with the opportunity to create the greatest of goodwill with your customers. The body-building properties of this tonic are well known—your customers will want to buy.

CHILDREN'S TONIC.

Retail **6d.** 2½-oz. tobin. Price **4/-** doz. Gross lots **3/9** doz.
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Own name on 3-dozen lots.

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Now is the time when extensive buying is done in Perfumery and Toilet articles

At Home and Overseas wholesale, export and retail dealers are on the look out for attractive lines in Perfumery and Toilet Soaps, Boudoir Accessories in silver and glassware and other fancy articles and Druggists' Sundries. These sell freely before and during the festive seasor

In the issue of

THE CHEMIST & DRUGGIST

to be published on

September 21st, 1935

there will be a special supplement produced on tinted paper in violet ink which advertisers can use advantageously for attractive announcements of their products, utilising their usual half-tone or line blocks. A section will likewise be available for those who prefer reproduction in photogravure.

WRITE AT ONCE FOR ALL DETAILS OF SPACE AVAILABLE, ETC., TO:

The Publisher,
THE CHEMIST AND DRUGGIST, 28 ESSEX STREET, LONDON, W.C.2

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Bismuth Carbonate, B.P.

Satisfies on these important points

* QUALITY—Conforms to 'Wellcome' Brand standards, which are more exacting than the standards of the B.P. 1932.

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* COLOUR—Exceptionally white and pleasing to the eye.

* DENSITY—A definite mixture gives a uniform sediment.

* SUSPENSION—In water, settles to a light flocculent deposit, which requires only slight agitation to rediffuse.

Indisputably—THE Bismuth Carbonate for all dispensing purposes

Prices of this and all other Bismuth Salts issued under the 'Wellcome' Brand will be forwarded on request.



BURROUGHS WELLCOME & CO., LONDON

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CALSIMIL is rapidly becoming the standard treatment for all conditions of calcium deficiency.

Each Calsimil Tablet contains 5 grains of Calcium Sodium Lactate and 500 international units of pure crystalline Vitamin D (Radiostol) in which form calcium is most readily assimilated and retained.

The tablets are very palatable and so can be taken for a prolonged period without distaste.

Calsimil is backed by our medical propaganda and the demand for it is steadily increasing.

P.A.T.A. PRICES

Flasks : 60 Tablets

Retail **2/6.** Wholesale **20/-** per doz. net.

THE BRITISH DRUG HOUSES LTD., LONDON, N.1

T.G.S.

THE CHEMIST AND DRUGGIST

A Weekly Journal of Pharmacy, the Drug, Chemical and Allied Trades

The official organ of The Pharmaceutical Society of Ireland, The Pharmaceutical Society of Northern Ireland, The Chemists' and Druggists' Society of Ireland, and of other Chemists' Societies in Overseas Dominions

PUBLISHED AT

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4 CANNON STREET, MANCHESTER (TEL.: BLACKFRIARS 3052)
54 FOSTER'S BUILDINGS, HIGH STREET, SHEFFIELD (TEL.: 22458)
19 WATERLOO STREET, GLASGOW (TEL.: CENTRAL 2329)
372 FLINDERS LANE, MELBOURNE, AUSTRALIA
55a SHORTLAND STREET, AUCKLAND, NEW ZEALAND
155 AVENUE DE WAGRAM, PARIS, XVII[e] (TEL.: ETOILE 19-79)
PLANTAGE FRANSCHELAAN 32 AMSTERDAM-C, HOLLAND

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News of the Week

Import Duties Exemptions—Essential Oils, etc.

The Import Duties (Exemptions) (No. 11) Order, 1935, (S.R. & O. 1935 No. 880) issued by the Treasury on the recommendation of the Import Duties Advisory Committee provides for the addition to the Free List, as from September 4, 1935, of:—

Iodine.

Natural but not turpeneless essential oils, the following:—

Cananga.
Cassia.
Chenopodii.
Spike Lavender.
Mandarin.

Floral concretes, the following:—

Jasmin.
Lavender.
Mimosa.
Mousse de chene.
Orange flowers.
Rose.
Violet leaf (Vert de violet).
Attar (otto) of rose.

The following organic intermediate products or mixtures of organic intermediate products:—

Naphthol RPH.
Naphthol SB.
Naphthol ST.
Naphthol RT.
Naphthol SD.
Naphthol RMT.
Scarlet Base IV.
Scarlet Base V.
Red Base VIII.
Scarlet Salt R.
Scarlet Base R.
Scarlet Salt IV.
Scarlet Salt V.
Brown Salt I.
Brown Salt II.
Violet Salt III.
Violet Base III.
Bordeaux Salt III.
Fast Golden Orange Salt GR.
Rapid Fast Orange IGH.
Rapid Fast Orange IRH.
Rapid Fast Yellow 13GH.
Rapidogen Orange IRR.
Rapidogen Red GS Conc.
Rapidogen Scarlet RS Conc.

The Committee make the following observations:—Such iodine as, in its prepared forms, is subject to Key Industry Duty is unaffected by the Order, which relates to the cruder forms from which the refined product is prepared. The main sources of supply of the crude material are the Chilean nitrate industry, copper iodide and kelp. The two latter products are already on the Free List, but the Committee state that they have not hitherto made any recommendation in regard to iodine, having regard to the large stocks which had been accumulated in this country. London is, however, an important centre for the entrepôt trade and the stocks have been much reduced by shipments abroad. The Committee have given careful consideration to the crude iodine producing interests in this country, and especially those of the kelp gathering industry, but they are satisfied that the retention of the duty would not be of any benefit to them. In regard to the essential oils and floral concretes, the Committee report that these goods are used mainly in perfumery and pharmacy and for flavouring, and are essential requirements of manufacturers who have important export interests. They are satisfied that none of the commodities is obtainable in adequate quantities either from home or Empire sources. [Editorial comment, p. 304.]

Import Duties Advisory Committee Notice

The Import Duties Advisory Committee give notice of an application for an increase in the import duty on Sodium Bichromate and Potassium Bichromate. Any representations which interested parties may desire to make in regard to this application should be addressed in writing to the Secretary, Import Duties Advisory Committee, Caxton House (West Block), Tothill Street, Westminster, London, S.W.1, not later than September 26, 1935.

Birmingham

At Birmingham Police Court, on September 4, Ernest Peace Freeman, alias Dr. Louis Rabinov, giving an address at Cowes, was remanded on a charge of obtaining drugs valued at £30 6s. by false pretences from Blackwell, Hayes & Co., Ltd. Bail was allowed.

Mr. Hubert Sumner, general secretary of Birmingham and Midland Skin Hospital, retired recently at the age of sixty. Mr. Sumner completed thirty-five years' service at the institution. Mr. T. E. Murtagh, appeals and assistant secretary since 1931, has been appointed general secretary.

Liverpool

Mr. S. Rathbone, chemist and druggist, who gained first place in the final examination of the Incorporated Sales Managers' Association held at Liverpool recently, has been awarded the Association's gold medal. Mr. Rathbone is manager of the Earlstown branch of Boots, Ltd.

On August 25 Mr. Harold Freer Pugh, a doctor's dispenser, collided, while motor-cycling, with a motor car driven by his brother, Mr. F. C. Pugh, chemist and druggist, of Smithdown Road. He was taken to Smithdown Road Hospital, where among the doctors summoned was his eldest brother, Dr. Thomas Freer Pugh; he died three hours later without regaining consciousness. Mr. Freer was fifty-three years of age. A verdict of "Accidental death" was returned at the inquest.

London

This year's Business Efficiency Exhibition is to be held from October 2 to October 12.

In "The Times" of September 4 appeared an article headed "The Clerkenwell Plots: Small-holders of the Drug Mills," dealing with the conversion of a vacant site near Smithfield Market into a children's garden. The drug mills referred to were those of Ferris & Williams, the interests of which were acquired by Stafford Allen & Sons, Ltd., in 1913.

At Marylebone Police Court, on August 31, John Hutcheon (55), chemist and druggist, was charged with being drunk and behaving in a violent manner at Harrow Road Police Station, W., near which he was in charge of a pharmacy. It was stated in evidence that on the day mentioned in the charge a police sergeant directed an officer not to allow anyone to purchase drugs at the shop. The defendant, who denied that he was drunk and explained that he had been gassed, was remanded for a medical report.

At London Sessions, on September 3, John Fisher (34), drug-store proprietor, Melcombe Street, N.W.1, was charged with maliciously inflicting grievous bodily harm upon Miss Marjorie Marrable, an inspector of the Pharmaceutical Society. (The facts of the case were published in the *C. & D.*, August 24, p. 240.) Fisher pleaded "Guilty" to common assault, and Mr. Rosenberg, for the prosecution, said that subject to his lordship's approval, he was prepared to accept that plea. Mr. St. John Hutchinson, K.C., who appeared with Mr. John Maude for Fisher, said that he was a man of the very highest character, and had been eight months in his present establishment. The result of his action was never foreseen by him. The chairman (Sir Percival Clarke), in binding the defendant over, said: I have no doubt the defendant realises he has done something he should not have done in his anxiety to prevent the evidence getting further from his shop and trying to get the bottle of lysol from this lady. He offers her £50, and that being so, I do not see the necessity of sending him to prison. He will be bound over to be of good behaviour for two years in the sum of £10, and pay £10 10s. towards the costs of the prosecution.

Miscellaneous

THEFT OF CHEMICALS.—Thieves entered the premises of International Chemical Company, Ltd., Braydon Road, London, N.16, during the past week-end and stole among other things a quantity of chemicals, including potassium cyanide and silver nitrate. It is announced that the chemicals were found in the street at Walthamstow, E., by the police on September 4.

THE NEW INSPECTORATE.—Burnley Corporation watch committee has received from the Home Office a letter giving information on the duties of local authorities under the Pharmacy and Poisons Act, 1933. The committee has also received communications from the Pharmaceutical Society and Burnley Grocers' Association. The former asked whether it was the Council's intention to appoint one of the Society's inspectors as the local inspector for the purposes of the Act, while the Grocers' Association protested against the appointment of an inspector of the Society.

DOSES FOR GREYHOUNDS.—At Blackpool Police Court, recently, Edgar Atkinson (32), clerk, Park Road, Blackpool, was charged with corruptly giving money to a kennelman named Whittaker as an inducement. Louis Friend (32), clerk, Whitegate Drive, was charged with aiding and abetting. It was alleged that Atkinson, accompanied by Friend, asked the kennelman if he would do anything in the way of giving dogs capsules. A public analyst, it was stated, had analysed certain capsules and cachets. The capsules were composed of caffeine and the cachets of chloral hydrate. Since 1933 the prosecuting company had lost twenty-two dogs, most of them through the effects of caffeine. The accused, who pleaded "Not guilty," were committed for trial. Bail was allowed.

Irish Notes

Pharmaceutical Society of Ireland

The Council of the Pharmaceutical Society of Ireland wish particularly to direct the attention of students to the fact that consequent upon the alterations now being carried out at the Society's headquarters accommodation in the pharmacy class will be restricted this term. Accordingly, students who wish to do the pharmacy course should make early application to be enrolled. If the entry for the pharmacy course is sufficiently large, the Council have decided to run a day class, in addition to the evening class, during the coming term.

At a special meeting of the Council of the Pharmaceutical Society of Ireland held recently, twelve tenders were considered for the carrying out of an extensive range of alterations to the Society's headquarters at 67 Lower Mount Street, Dublin. Mr. D. Warwick (president) was in the chair, and other members of the Council present were Messrs. F. J. Fitzpatrick, J. T. Dwyer, D. W. P. Boyd, B. P. Hickey, P. Brooke Kelly, J. Duggan, W. J. McKnight, M. J. Parkes, Dr. Mitchell, Sir Thomas Robinson, Mr, T. J. Smith and Miss F. M. Flood. The tender of Long & Fitzpatrick, contractors, Dublin, at £3,750 was accepted, and the work of reconstruction was begun this week. The alterations to be carried out include raising the height of the existing premises, and the provision of new theoretical chemistry and botany rooms and a new roof. Both of these new classrooms will be of the same dimensions as the existing Council chamber, and will afford much-needed additional accommodation. Further improvements comprise raising the roof of the present pharmacy classroom, a new students' entrance, additional toilet accommodation, new porter's lodge and accommodation for bicycles. The contract also includes the installation of a central heating plant, the finishing of the entire frontage of the Society's headquarters and the fitting of new teak windows throughout the premises.

North Leinster Drug Federation

The second meeting of the newly formed North Leinster Drug Federation was held on August 29 at the Imperial Hotel, Dundalk, when chemists were present from the counties of Louth, Dublin, Monaghan and Cavan. Mr. T. C. Scott (president of the Irish Drug Association), who took the chair, was accompanied from Dublin by Mr. P. Brady (vice-president) and Mr. Brendan Smith (organiser). Apologies for inability to attend were read by the secretary (Mr. B. P. Hickey) from several members. It was agreed that the Committee of the Federation be increased by two more members; Mr. Burke (Cavan) and Mr. Byrne (Dundalk) were co-opted. Mr. Scott drew attention to the approved list of manufacturers which had just been issued by the I.D.A., and urged all members should make themselves familiar with the names of the manufacturers on that list, and their products. Those manufacturers who fell into line with Association's policy should be supported. Similarly, members of the I.D.A. should show their disapproval of firms not on the approved list by refusing to give window or counter displays of their goods, or in any other way furthering the sale of their products. The question of having qualified chemists appointed as compounders to the various country dispensaries was again dis-

cussed, and several members present urged that representations on this matter should be made to the Department of Local Government and Public Health. Mr. Leavy, moving a vote of thanks to Mr. Scott and Mr. Brady for travelling from Dublin to the meeting, spoke of the excellent work being achieved by the I.D.A. Mr. Flood seconded the motion, which was cordially adopted.

Brevities

The offices of the Pharmaceutical Society of Northern Ireland, which were closed during August, reopened on September 2. The next Council meeting will be held on September 20.

The Irish Chemists' Golfing Society will hold the contests for the Kodak cup and Selo prize at Woodbrook Golf Club, Bray, on September 15. As this will be the last outing of the season, the captain (Mr. Phil Ryan, Boyle) desires a full attendance of members. Following the competitions a meeting of the Society will be held and the programme for 1936 discussed. Members who propose attending the outing should notify the Society's secretary, Mr. A. F. Roche, 34 Donnybrook Road, Dublin.

Mr. James R. Haslett, who has been appointed a member of the newly formed Transport Board of Northern Ireland, is well known in the drug trade. He is a brother of Major Horace Haslett (J. & J. Haslett, Ltd.) and son of the late Sir James Haslett, M.P., a former Mayor of the city and for many years president of the Chemists' and Druggists' Society of Ireland. Mr. Haslett is divisional agent for Imperial Chemical Industries, Ltd. He is the present chairman of the Transport Committee of the Belfast Chamber of Commerce, and has made a special study of transport problems as affecting different countries.

Scottish Notes

Brevities

It is interesting to learn that the Union Bank, which has taken over the old headquarters of Davidson & Kay, Ltd., in Union Street, Aberdeen, have left the well-known frontage practically untouched.

Mr. T. Cockburn, F.I.C., has been recommended by the Health Committee of Glasgow Corporation as successor to Mr. F. W. Harris, F.I.C., corporation chemist and city analyst, who will shortly be retiring after thirty-five years' service.

Mr. Malcolm M. Irvine, Ph.C., a Glasgow pharmacist, has joined the salvage ship "Orphir" in order to assist in the search for the sunken "Lusitania." Mr. Irvine will supervise the handling of the torpedo magnet apparatus, by the aid of which it is expected to be possible to measure any wreck with which it makes contact.

A correspondent (30/8) writes:—"Every day one learns that fewer and fewer chemists are taking apprentices. The age of the average apprentice and the irksome rules regulating apprenticeship are factors in the decline of entrants. Boys who have just left school at fourteen are adaptable to modern pharmaceutical business needs and are only too glad to get a job. The tendency is for a chemist to lock his shop for meals and so be able to superintend business properly, and the public are being rapidly educated to the change. The menace of the company chemist has had the effect of strengthening the friendship between wholesale and retail chemists, and each has now a better understanding of the difficulties of the other. There is also a much better spirit existing among retail chemists."

Topical Reflections

By Xrayser

I am Glad

that you have drawn attention to the necessity for some training in business routine and practice on the part of the pharmacist (*C. & D.*, August 31, p. 277). I have been hammering away at this subject for years. It is deplorable to go into a pharmacy, as I have done in different parts of the country, and see the inefficient and often indifferent way in which an assistant handles a customer; this shows lack of salesmanship. I once gave a series of addresses on business subjects, and I was amazed at the questions put to me upon such subjects as banking, book-keeping and commercial law. The fact is that the pupil has to fill in his compulsory two years behind the counter in dispensing and getting a knowledge of practical pharmacy; he has no opportunity of acquiring any knowledge of how to run a business—if, indeed, his employer is able to impart this to him. The result is that when he goes into business for himself he has a very foggy idea of how to begin. He is often quite at sea as to how much capital he requires, how to buy, what profit margin to allot, the meaning of "overheads," how to keep stock and the like. Pharmacists are over-educated in some things that do not matter and under-educated in many things that do; it may be said with truth that the men who are making a good income out of pharmacy are usually those who are good business men and are using their marketing education rather than their scientific.

"Comfort at the Counter"

is a practical article (p. 280) which should appeal to all practising pharmacists: I endorse every suggestion the writer makes. First and foremost, every pharmacy should have ample space behind the counters, certainly sufficient for one person to pass another. I have been behind the counters in pharmacies where the space between the edge of the serving counter and the glass handles of the drawers in the fixtures on the wall allowed just room enough for one assistant to stand and serve a customer! The difficulty of finding a sufficient area on which to wrap up a parcel is common: a sliding board pulled from under the counter when required will get over this difficulty. It is a good suggestion, also, that the labels of drawers should indicate the actual contents; if in English, so much the better. There are still windows to be found which it is impossible to dress unless an assistant gets completely inside and remains there in a cramped position till the job is done. Needless to say, nothing can be taken from them at the request of a customer; when the contents are in position, the window is fastened and remains so until it is necessary to re-dress it. As an assistant in a well-known pharmacy I worked in full view of the public in an open dispensary. Such a practice is good in many ways. There is, as a rule, plenty of light if the dispensing counter is at right angles to the window: the dispenser is apt to be more careful in the manipulative part of his work if he knows that the customer is watching him; there is also a certain educational value to the public.

The Collection

of queer customers met with by "Northern Scot" (p. 249) is a good one. I have met many in my time, but I have not been so fortunate as he has, possibly because my pharmacies have always been south of the Tweed! I have noticed that the big centres of population do not produce such "characters" as do the country places; life moves more slowly in the latter and induces peculiarities that often reveal themselves to the chemist more than to many other shopkeepers. Looking back over a long experience, I can recall many amusing and sometimes pathetic incidents, as, no doubt, can most pharmacists who have been in business over an extended period. Of the latter those of my apprenticeship days in connection with "dope fiends" are most vivid; the younger generation of pharmacists know nothing of the shifts and wiles of the daily visitors to the pharmacy for their dose. I recall the visits of a foreign nobleman who could not always pay for his supply of cocaine and left his watch in pawn with my employer on such occasions. Humorous incidents have been many. Perhaps I was most thankful for a sense of humour when I was asked, one snowy winter night, to go to the house of a wealthy customer some two miles away to poison an aged cockatoo. Loading myself with chloroform and hydrocyanic acid—I knew nothing of destroying birds—I battled through the snow (there were no cars then), only to be told on my arrival that the ancient fowl had just passed away! Before going back I was regaled with hot coffee and biscuits—in the servants' hall.

New Companies and Company News

P.C. means Private Company and R.O. Registered Office

Brookes (Dudley), Ltd. (P.C.).—Capital £100. Objects: To carry on the business of chemists, druggists, etc. R.O.: 28 Wolverhampton Street, Dudley.

Broomes, Ltd. (P.C.).—Capital £100. Objects: To carry on the business of chemists, druggists, opticians, etc. R.O.: 52 High Road, Woodford Green, Essex.

Stolwein Research Laboratories, Ltd. (P.C.).—Capital £100. Objects: To carry on the business of research chemists, druggists, etc. R.O.: 9 Victoria Street, S.W.1.

Neale & Jenkins, Ltd. (P.C.).—Capital £300. Objects: To carry on the business of chemists, druggists, opticians, etc. R.O.: 2 Teignmouth Parade, Perivale, Greenford, Middlesex.

Brom-Nervacit, Ltd. (P.C.).—Capital £100. Objects: To acquire the business of a manufacturing chemist carried on by O. A. Magnus at 47 Crogsland Road, N.W.1, as the Brom-Nervacit Laboratory.

Relyvac Flask Works, Ltd. (P.C.).—Capital £100. Objects: To acquire the business of Relyvac Flask Works, and the business of manufacturers of and dealers in vacuum flasks, etc. R.O.: 18 Clifton Road, Watford, Herts.

Piccadilly Produce, Ltd. (P.C.).—Capital £100. Objects: To carry on the business of manufacturers of and dealers in food, chemicals, drugs, aerated waters, etc. R.O.: 14-16 Heddon Street, London, W.1.

Joynes Dental Depot, Ltd. (P.C.).—Capital £500. Objects: To carry on the business of dealers in dental requisites and supplies, manufacturers of teeth in compo, porcelain, gold, etc. R.O.: 9 Belgrave Road, Victoria, S.W.1.

Ion Chemical Co., Ltd. (P.C.).—Capital £250. Objects: To carry on the business of wholesale and/or retail manufacturing and agricultural chemists, manure merchants. R.O.: 187A West George Street, Glasgow, C.2.

Heitz Products Co., Ltd. (P.C.).—Capital £100. Objects: To carry on the business of manufacturers of and dealers in all kinds of pharmaceutical and cosmetic preparations, etc. Aage de Brock, 85/6 New Bond Street, W.1, director.

Scott & Taylor, Ltd. (P.C.).—Capital £1,000. Objects: To carry on the business of manufacturers of and dealers in shaving cream, toilet preparations and pharmaceutical preparations, etc. R.O.: 14 King William Street, E.C.4.

F. Farmer, Ltd. (P.C.).—Capital £500. Objects: To carry on the business of manufacturers and dealers in surgical, dental, optical, chemical and scientific instruments, appliances and materials, etc. R.O.: 4 Ravilion Buildings, Brighton, 1.

Phonosan Co., Ltd. (P.C.).—Capital £200. Objects: To carry on the business of manufacturers of and dealers in disinfectants. The directors are: Andrew Johnson and Mrs. Emma Johnson, 120 Admiral Street, Princes Park, Liverpool.

C. Keith-Thomas (Sales), Ltd. (P.C.).—Capital £100. Objects: To carry on the business of wholesalers and retailers of all kinds of perfumery, toilet and beauty preparations, etc. R.O.: India Works, Exhibition Grounds, Wembley, Middlesex.

United Glass Bottle Manufacturers, Ltd.—Interim dividend of 2½ per cent. on the ordinary shares declared, payable on September 17.

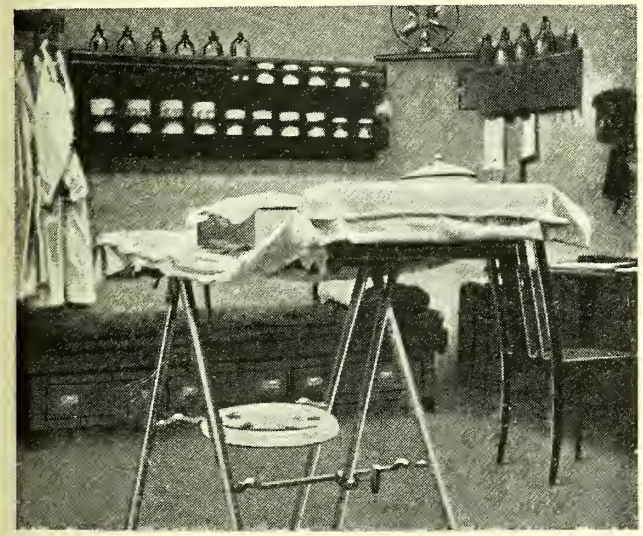
Lactagol, Ltd.—Profit for the year ended June 30 of £6,133 (against £4,371 for 1933-34), out of which £989 (against £925) has been set aside for income tax. The directors propose to write down preliminary expenses by £1,000, to transfer £250 to development fund, and to pay a dividend of 5 per cent. (against 4 per cent.) and a bonus of 1 per cent. (against *nil*) on the ordinary shares, which will leave £647 to be carried forward (against £628). It is intended in future to close the annual accounts as at September 30.

Stock Exchange Prices

£1 shares unless otherwise stated	Dec. 31, 1934	July 31, 1935	Aug. 31, 1935
	s. d.	s. d.	s. d.
Allen & Hanburys, 7% Prefd. Ord. ...	21 3	23 3	23 0
Amalg. Dental Co., 8% Prefd. Ord. ...	23 9	25 3	24 9
,, ,, Deferred £1 ...	8 3	9 0	8 9
Aspro, Ord. 5s.	—	—	16 0
Ayrton, Saunders & Co. 7½% Pref. ...	19 6	22 6	22 3
Beechams Pills, Deferred 5s. shares ...	26 6	28 0	30 6
Benger's Food, Ord.	43 6	41 3	41 3
Benzol & By Products cum. part. Pref. ...	2 6	2 0	2 6
Berger (Lewis) & Sons, Ord....	41 3	60 6	63 9
Blundell Spence & Co.	19 0	17 0	17 6
Boake (A.), Roberts & Co., 5% Pref. ...	21 3	21 3	20 0
Boots Pure Drug, Ord. 5s. shares	46 0	49 3	49 9
Boots Pure Drug, 7% "A" Prefd. Ord. ...	31 0	32 3	32 0
Boots Cash Chemists (S.), 6% "A" Pref....	28 9	29 0	28 9
Borax Consold., Dfd. Ord.	11 6	16 3	16 9
Bovril, Ord.	29 9	22 6	23 3
,, Defd.	17 9	14 0	14 6
British Cyanides, Ord., 2s. shares ...	3 1½	3 3	3 1½
British Drug Houses, The, Ord.	19 3	19 9	19 9
British Glues & Chemicals, 4s. Ord. ...	4 0	5 6	5 6
British Oil and Cake Mills, Prefd. Ord. ...	45 0	47 9	48 6
British Oxygen, Ord.	84 0	116 0	107 0
British Photo. Indus., 6% Cum. Pref. ...	3 0	3 0	3 3
Burt, Boulton & Haywood, Ord.	22 0	21 6	20 6
Bush (W. J.) & Co., 5% Pref. £5	105 0	112 6	110 0
Callard, Stewart & Watt, Ord.	5 6	3 3	3 3
Cooper, McDougall & Robertson, Ord. ...	35 0	36 3	35 0
Crosfield (Joseph) & Sons, 6½% Pref. ...	30 0	30 6	31 0
Dubarry Perfumery, Ord. 1s.	6 3	5 10½	5 7½
,, ,, 7½% Pref.	27 6	27 6	28 6
Eastman Kodak Com. (no nom. value) ...	$113½	$149	$147
Eno Propriet'y, Ord. 5s.	12 0	9 4½	9 4½
Evans Sons Lescher & Webb, Ord. 6s. 8d. shares	2 9	4 3	4 9
,, ,, 6% cum. part. Pref.	5 9	7 0	7 6
Field (J. C. & J.), Ord.	26 6	24 6	24 6
Galloway (P. H.), Ord. 2s.	3 9	3 6	3 6
,, ,, 7½% Cum. Pref.... ...	27 0	27 0	27 0
Genatosan, Ltd., 1s.	5 6	6 6	6 6
Gossage (William), 6½% Pref.	30 6	30 6	30 6
Griffiths Hughes (Kruschen) Ord.	49 9	54 3	53 9
Grout & Co., Ord.	19 3	23 6	22 6
Hodders, Ord. 1s.	0 6	0 7½	0 6
Ilford, Ltd., Ord.	27 6	24 9	24 6
,, 6% Pref.	25 0	23 9	25 0
Imperial Chemical, 7% Pref.	34 1½	33 3	32 9
,, ,, Ord.	37 3	34 9	34 9
,, ,, Defd. 10s.	9 7½	8 7½	8 4½
Intern. Sponge Importers, 6% Pref. ...	16 9	11 3	9 6
Kent (G. B.) & Sons, 5½% Pref.	3 9	4 0	3 9
Knight (John), 25% Prefd. Ord.	95 0	97 6	97 6
Laporte (B.) & Co., Ltd., Ord.	104 6	115 0	107 6
Lever Bros., Ltd., 7% Pref.	32 0	31 9	31 0
,, ,, 8% Pref.	33 0	32 3	32 6
,, ,, 20% Prefd. Ord. £1 ...	75 6	77 6	76 9
Lewis & Burrows, Ord.	27 6	21 3	21 3
,, ,, 6% Pref....	22 6	21 0	21 0
Liebig's Ext. of Meat, Ord. £5	£11¾	£13	£12¾
Mellin's Food, 6% Pref.	1 3	1 3	0 10½
Nathan, J. (Glaxo), 7% Pref.	25 6	24 0	24 0
,, ,, ,, 8% Prefd. 10s. ...	12 6	12 6	12 9
,, ,, ,, Ord. 1s....	2 6	3 3	3 6
Pears (A. & F.), 5% Deb. £100	£110	£110½	£110
Phosferine (Ashton & Parsons), 8% cum. partic. Ord.	24 0	21 9	20 6
Reckitt & Sons, Ord.	115 3	115 0	114 0
Salt Union, Ord.	38 9	43 0	43 9
Sangers, Ord. 5s.	22 0	22 9	22 4½
"Sanitas," The, Co., 9% Pref.	31 9	33 9	33 9
Sanitas Trust, 10% partic. Pref.	29 0	33 9	33 0
Smith (Stephen) & Co., Ord. 5s.	12 9	12 7½	12 1½
Spratt's Patent, Ord.	71 9	70 6	70 6
Stevenson & Howell, 6¼% Cum. Pref. ...	26 3	26 3	26 9
United Glass Bottle Man., Ord	—	42 6	40 3
Veno Drug Co., 8% Pref.	27 9	26 0	26 0
Virol, Ltd., Ord.	26 3	30 0	30 0
,, 7% Pref.	26 0	26 3	26 3
White (A. J.), Ltd., Ord. 10s.	22 0	21 3	21 0
White (Timothy) & Taylors, 7½% Pref. ...	31 0	28 3	27 0
,, ,, Ord. 5s.	21 9	20 9	20 6
Woodlands Chemists, Ord. 5s.	—	4 9	4 3
Wright, Layman & Umney (1932), 7% cum. Pref....	25 0	24 0	23 9
Yorkshire Indigo & Col. Dyers, 5s. Ord. ...	0 9	0 3	0 3

A Pharmacist Afloat

On looking over the vast number of wonderfully fitted cabins on board the Canadian Pacific Railway Company's magnificent liner "The Empress of Britain," I was interested to ascertain how the medicinal needs of the ship's 1,500 passengers and crew were met. Through the senior medical officer I was afforded an opportunity of inspecting the dispensaries, hospital wards, dental surgery, etc. The boat has two medical officers, the senior being Dr. Gardner. Under them serve the chief dispenser, with two assistants, and two trained nurses. The chief dispenser conducted me personally over each part of the ship. The whole space allotted to dispensaries, etc., with the exception of a small dispensary in the third class, is in the first-class section of the ship. Leading off a most luxurious corridor is a combined dispensary and operating theatre. The well-placed and well-lit operating table is used for inspections and even for major surgical operations. The dispensary is thoroughly well equipped. All drugs are housed in fine glass-



The Operating Table

enclosed mahogany wall cases. Drawers below contain a large range of surgical instruments, and all dressings are kept in sterilised sealed tins. The dispensary counter carries a sink fitted for hot and cold water. Near by are hot and cold sterilisers. Occasionally, I was informed, attempts are made by passengers to obtain forbidden drugs, usually by such as are picked up at foreign ports during the annual world cruise made by "The Empress of Britain." I noticed that the dispensing balance bore the name of Ayrton, Saunders & Co., Ltd., Liverpool.

The Ship's Hospital

From the dispensary I was conducted to the hospital. There is capacity for about fifty beds, with separate male, female, and isolation wards, and also, in case of emergency, a maternity ward with specially slung beds. From the hospital one enters direct into the modernly equipped dental surgery. Close by are rooms for violet-ray treatment or massage by a qualified masseur. Bacteriological work is carried on under the supervision of Dr. Gardner, cultures being made by the chief dispenser. The latter informed me that he had spent about twenty-five years at sea. Inquiry revealed that neither he nor his two assistants had any pharmaceutical qualification, but relied solely on Army or Navy training. I was informed that on the ordinary voyage from Southampton to Quebec, which only occupies five days, there is not a great deal of dispensing to be done. On the world cruise, however, owing to the number of "chronic" cases carried and also to the excursions ashore at the various ports touched, the dispensers are kept busy. One could not help being impressed by the completeness of each department, the facilities for medical treatment so compactly arranged. It was even hard to realise that I was actually in the middle of the Atlantic Ocean. Photographs were difficult to make owing to vibration, but the operating table is fairly clear in the photograph reproduced.—*J. H.* (17/8).

Prescription Problem

THE prescription given in facsimile (slightly reduced in size) in our issue of August 17 (p. 218) brought us an unusually small number of transcriptions. We are not at present sure whether this fact is due to the claims of holidays, or whether some of our readers suspected a "catch" in what is really not a very difficult calligraphy to decipher. The correct transcription is as follows:—

Acide lactique	2, — —
Sir[o]p de coings	30 —
„ de fleur d ['] orang[e]r	20 —
Elixir pare[é]gorique	xxx
trente gouttes	
Eau bouillie refroidie q.s. [ad (or pour)] ...	250 —

In cases of doubt we have neither given marks nor withheld them: for instance, in the first line it is impossible to decide, on the evidence of the original prescription, whether the prescriber intended a comma or a full stop after the figure. He has missed the accent on the first "e" of "parégorique," a circumstance rare, we believe, among writers of prescriptions in French. He has departed from a title in the French Codex by writing "coings" in the plural instead of in the singular.

A few competitors read the first ingredient as citric acid, and two sent translations instead of exact transcriptions. About half the postcards showed a weakness in the conjugation of bouillir and refroidir, both of which verbs have past participles in i, with the feminine in ie. Some even mixed the ie and ée forms, giving "bouillie refroidée" or vice versa. A few ordered orange-flower water instead of syrup. And only two definitely indicated that the "e" should have been "é" in "paregorique." On a final scrutiny we have arranged our correspondents in two classes. In the first class are:—

Miss Dorothy Harman, c/o C. S. Ashton & Co., 46 Dyke Road, Brighton, 1
Mr. Charles S. Hoye, c/o Pharmacy Swann, 12 Rue Castiglione, Paris (1er)
Miss E. D. Pratt, The Bungalow, Knode, Belfast
Mr. G. A. H. Shelley, c/o R. H. Cooper & Co., 20 Royal Exchange, London, E.C.3
Mr. R. J. Stratton, East Suffolk and Ipswich Hospital, Ipswich
Mr. Louis Van Schoor, Vondelstreet, 20, Antwerp
Mr. Auth. G. Vlamos, 33 Miaoulis Ave., Piræus, Greece
Mr. J. Woofson, 77A Bridge Street, Newport, Mon.

to each of whom a prize of 5s. is awarded.

The second class consists of:—

"Beta," c/o W. Challice, Ltd., Hayling Island
Mr. C. E. Churchfield, 24 Greek Street, London, W.1
Mr. Frank C. Cumberland, 52 Earls Avenue, Folkestone
Miss C. M. Hall, Wheathampstead House, St. Albans
Mr. J. Hunt, c/o Grattan & Co., Ltd., 7 and 9 Corn Market, Belfast
Mr. R. S. Ive, 115 Gloucester Road, London, S.W.7
Mr. B. Murphy, M.P.S.I., 213 Shirland Road, London, W.9
Mr. S. J. Powell, Kingsway Pharmacy, London, W.C.2
Mr. G. B. H. Somerset, 53 West Hill Road, London, S.W.18
Mr. R. G. Urch, c/o George Brown & Son, 139 St. Stephen's Green, W., Dublin
Mr. Marcoo Wassef, Misr Dispensary, 25 Choubra Street, Cairo

each of whom receives a prize of 2s. 6d.

Autumn science tuition.—Autumn (evening) courses in, *inter alia*, "The Application of *x*-Ray Analysis to Chemical Problems," "Modern Applications of Organic Compounds to Chemical Analysis" and "Micro-Chemical Analysis" are to be given at the Sir John Cass Technical Institute, Jewry Street, London, E.C.3. Full particulars are obtainable from the principal. In the session 1934-35, thirty students of the Institute gained university degrees.

Annual Health Review

THE Ministry of Health have just issued their annual report covering the year ended March 31, 1935. The report this year is perhaps of special interest in view of the fact that a Jubilee Year survey of the progress of health and social services during the King's reign has been made. It is a commonplace to state that the health of the community during the past twenty-five years has improved out of all recognition. It is recalled that a National Health Insurance scheme was set up in 1912 under statutory partnership of the State, the employer and the employed. The amount of money dealt with during the period is colossal. For example, between the date when the first periodical valuation of societies became effective and the end of the last calendar year no less a sum than £20,000,000 has been devoted to dental benefit alone. It is stated that under the rulings of the Therapeutic Substances Act, 1925, fourteen new licences were issued during the year, including five to manufacture, seven to import and two to import for the purposes of scientific research. The total number of licences in force on March 31, 1935, was 126. These were composed of fifty-five licences to manufacture, fifty-three licences to import and eighteen licences to import for the purposes of scientific research. Chemists who are interested in the sale of veterinary medicines will find a passing interest in the statement that, despite the fact that the situation in regard to the incidence of psittacosis was improving, it has been decided that the Parrots (Prohibition of Import) Regulations, 1930, should remain in force. The number of samples of food and drugs analysed by public analysts during 1934 in England and Wales was 140,583. This was an increase of 2,412 on the number for the previous year and is the highest recorded. Four hundred and eighteen contraventions of the Public Health (Preservatives, etc., in Food) Regulations were reported. Samples containing prohibited preservative included cases of boron preservative, sulphur dioxide and formaldehyde. Of 76,930 samples of milk examined by public analysts 7.2 per cent. were reported to be adulterated or not up to standard.

The Sampling of "Drugs"

The number of samples of "drugs" examined was 5,886, and 286 of these were found to be adulterated or not up to standard. Thirty-two samples of sweet spirit of nitre were adversely reported upon, mainly by reason of a deficiency in ethyl nitrite. Sixteen samples of camphorated oil were deficient in camphor, and one contained an excess of that substance. Samples of solution of iodine were found to be deficient in alcohol, iodine or potassium iodide; three samples, in addition to being deficient in iodine and potassium iodide, contained methylated spirits instead of alcohol and also contained boric acid. These samples were labelled as for external use only. Samples of boric ointment were reported to be deficient in boric acid or to contain an excess of that substance; mercury ointment was deficient in mercury; and zinc ointment deficient in zinc oxide. Calomel ointment was found to have been made with benzoated lard and to contain either a deficiency or an excess of calomel, and one sample was reported to consist wholly of mercury ointment. One sample sold as boric acid was found to consist of citric acid, and two samples of borax contained arsenic to the extent of 20 and 50 parts per million respectively. Several samples of ammoniated solution of quinine were deficient in ammonia or quinine sulphate or both, and others were deficient in alcohol. Two samples of ammoniated quinine tablets were entirely devoid of ammonia. Seidlitz powders, Gregory's powder and grey powder were also reported against, and one sample sold as Gregory's powder was stated to consist entirely of liquorice powder. One sample of bicarbonate of soda contained 25 parts of lead per million and one contained 94.7 per cent. of borax; two other samples of bicarbonate of soda also contained borax. In view of the interest evinced in lysol it is noteworthy that adverse reports were made on nine samples. According to the British Pharmacopœia standard, lysol should contain 50 per cent. by volume of cresols. The samples in question contained less than 3 per cent. of cresols, and though stated on the label to be solutions, when used in the proportion in which lysol is ordinarily used, would have practically no germicidal action. The danger attached to the use of such preparations of lysol is discussed elsewhere in this issue, and no further comment need be made; but it is stated that in one instance in which a sample contained only 2.5 per cent. of cresol, the word "Lysol" was printed on the package in large type, the word "solution" followed in smaller type, and the words "contains not more than 3 per cent. of cresol" in still smaller type. The vendor was fined £5, with 10s. 6d. costs. Such cases are obviously strong pointers to the necessity of the sale of such substances as lysol being in the hands of traders who are competent to handle them, and any attempt to evade medical needs should not be acceptable in law.

N.H.I. Medical Service in England

The following figures indicate the extent and cost of the Insurance Medical Service in England in 1934. There were 15,500 doctors in insurance practice. Medicines and appliances were supplied as part of medical benefit at about 10,000 chemists' shops. The number of insured persons entitled to medical benefit was approximately 14,973,000. Medical benefit costs £8,514,000. Of this sum insurance doctors received over £6,175,000 in respect of their duties of attending and treating insured persons, and £1,861,160 of the balance was paid to insurance chemists for the supply of drugs and appliances. The remainder was expended as follows:—

About £204,000 was paid to insurance doctors in rural areas on account of mileage, the payment being so calculated as to take account both of distance covered and of the difficulties of locomotion experienced in country districts.

About £194,000 was paid to doctors for medicines and appliances supplied by them personally or for medicines dispensed by them in country districts where patients are out of reach of chemists.

About £64,200 was paid on account of insured persons who exercised their option to claim treatment (including medicines) through approved institutions.

Over £8,000 was set aside to enable country doctors to attend courses of post-graduate study, and to provide them with other desirable facilities such as telephones, motor cars, branch surgeries, or "reasonable vacations."

£7,550 was paid on account of insured persons who were required, or allowed, to make their own arrangements for medical benefit.

The cost of drugs and appliances supplied by chemists during 1934 was met in full, but the dispensing fees payable were subject to the emergency deductions already referred to. There was a decrease of 2.3 per cent. in the number of insurance prescriptions dispensed in 1934 compared with 1933, the numbers falling from 59,338,504 to 57,986,980, and the average number of prescriptions issued per insured person entitled to supplies decreased from 4.56 to 4.49. The decline in the number of prescriptions dispensed is less than might have been expected in a year of freedom from severe influenza, and the continuance of this high frequency is a matter of concern to the Department. The total of the chemists' accounts fell from £1,985,885 to £1,941,874, and the following movements in the cost of the service also occurred:—

	1933	1934
Average ingredient cost (in pence) per prescription	3.643d.	3.677d.
Average total cost of drugs and prescribed appliances per insured person entitled to obtain them from chemists	2s. 11½d.	2s. 11d.

The number of cases in which remuneration was withheld from doctors on account of infringement of their terms of service, and the total amounts withheld, were seventy-eight and £626 6s. respectively, compared with seventy-two and £455 0s. 8d. in the previous year. These figures do not include cases in which remuneration was withheld on account of excessive prescribing. There was a further decrease in the number of cases in which money was withheld from insurance chemists on account of breaches of their terms of service, the number being 179 cases, compared with 184 in 1933 and 222 in 1932, and the total amount withheld being £251 12s., compared with £257 3s. in 1933 and £295 8s. in 1932. These figures, taken in conjunction with those recorded below, relating to the results of tests made under the schemes of Insurance Committees for testing drugs and appliances supplied by insurance chemists to insured persons, show that the high standard of insurance dispensing to which attention has been drawn in previous reports has been maintained during the year. About

4,240 samples were tested under the above-mentioned schemes for testing drugs and appliances ; the proportion of samples found on analysis to be correct, or so nearly correct that there was no ground for withholding remuneration, was over 95 per cent. Particulars available for 1933-34 with regard to the tests which have been made by the Testing House of the Manchester Chamber of Commerce of appliances prescribed by the Minister as part of medical benefit indicate that, while the percentage of tested dressings found to be deficient in quantity was the same as in 1932-33, i.e., 2.5 per cent., the percentage of dressings found to be deficient in quality had decreased from 4.4 per cent. to 3.2 per cent. The figures concerning the testing of dressings relate to Scotland as well as England and Wales. The large majority of cases in which money has been withheld from chemists have been those in which substantial inaccuracies have been revealed in the dispensing of test prescriptions. In most of the cases sums of £1 were withheld. The largest amount withheld was £20 (in one case); £10 was withheld in one case ; and amounts of £5 were withheld in three cases, £3 3s. in four cases and £3 in four cases. No representations were made by Insurance Committees during the year 1934-35 that the continuance of doctors on the medical list would be prejudicial to the efficiency of the insurance medical service. In the case referred to in last year's report as outstanding at the end of 1933-34, the Minister was satisfied on consideration of the report of the Inquiry Committee, and after reference to the Advisory Committee, that the continued inclusion of the doctor in the medical list would be prejudicial to the efficiency of the insurance medical service, and his name was accordingly removed from the list. Four representations were made by insurance committees during the year with respect to the continuance of chemists on the lists of persons supplying drugs or appliances to insured persons. In one case the Minister, after considering the report of the Inquiry Committee, was not satisfied that the circumstances were such as to call for the removal of the chemist's name from the list. In the three remaining cases the representations were withdrawn, and in one of these the chemist gave an undertaking to withdraw from the list and not to engage in insurance business again without the previous consent of the Minister.

N.H.I. Medical Service in Wales

The Welsh Joint Insurance (Pricing) Committee have continued to price the prescriptions for medicines and prescribed appliances ordered from persons supplying drugs or appliances in the various Insurance Committee areas in Wales. The number of such prescriptions priced for 1934 was 2,568,754, a decrease of 144,140 on 1933. The cost of these prescriptions was £87,882, compared with £90,911 in 1933. After making allowance for the 10 per cent. and 5 per cent. emergency deductions, payment was made at the rate of 90 per cent. of the dispensing fees for the period January 1 to June 30, 1934, and 95 per cent. for the period July 1 to December 31, 1934, and the amount paid to the chemists for the year was approximately £83,900. The administrative expenses of the Joint (Pricing) Committee were £2,321, a decrease of £65 on 1933. The cost of pricing (including the preparation of special reports) for 1934 works out at 18s. 1d. per 1,000 prescriptions, compared with 17s. 8d. for 1933 and 18s. 1d. for 1932. Where insured persons, by reason of distance or inadequacy of means of communication, have difficulty in obtaining drugs or appliances from a chemist, arrangements are made for the supply of any necessary drugs or appliances by the insurance practitioner in attendance. The cost of drugs so supplied by practitioners to their insured patients during 1934 amounted to £18,200. The total payment for medicines and appliances supplied by doctors and chemists was £102,600, compared with £104,100 in 1933. The cost of insulin supplied to insured persons in 1934 was £2,799, compared with £2,915 in 1933. The total of the chemists' accounts as priced by the Joint (Pricing) Committee amounted to £87,348 for 1934, compared with £90,421 in 1933. The average cost of drugs and prescribed appliances, as priced, per insured person entitled to obtain them from chemists was 2s. 6.23d. in 1934. The average cost per insured person entitled to medical benefit in Wales of drugs and appliances for the two years 1933 and 1934, after discounting the chemists' accounts for 1933 and making the emergency deductions for 1933 and 1934 was: 1933, 2s. 4.13d.; 1934, 2s. 4.64d. The regional medical staff of the Department visited fifty-one practitioners during 1934 for the purpose of discussing with them problems arising out of their prescribing, including the question whether any economies could be effected without depriving the insured patients of the proper and sufficient medicines to which they are entitled. No cases were referred to Panel Committees during the year under Article 42 of the National Health Insurance (Medical Benefit) Consolidated Regulations, 1928. With regard to the testing of medicines supplied by chemists in Wales during 1934, 320 samples of medicines and fifty-nine of appliances were taken and reported upon. The reports of the analyst and Testing House were considered in the first instance by the representatives of the Pharmaceutical Service Subcommittee of the Insurance Committee concerned, and those regarded as unsatisfactory were referred for formal investigation. Of these, twenty-seven were referred to the Pharmaceutical Service Subcommittee, and a deduction was made from the chemist's remuneration in one case. During 1934 deductions were made from the remuneration of eleven chemists for failure to dispense test prescriptions accurately. The amounts of the deductions varied from 10s. to £1 10s. Of eleven other complaints against chemists which were investigated by pharmaceutical service subcommittees, three resulted in deductions from the remuneration of the chemists concerned and two in the issue of warning letters. No chemist appealed against the decision.

The growth of the National Health Insurance scheme is a capital pointer to the strength of the industrial population of the country. It is perhaps unfortunate that chemists appear to have been treated as the " Cinderellas " of the scheme. Nevertheless, the completion of twenty-two years' service as dispensers to the nation is an argument in favour of the restriction of dispensing to chemists.

Controversy in New York

In the United States there has been, for a considerable time, a move to obtain a new federal Food and Drugs Act. In the meantime the New York City Board of Health has taken action. A Committee of five has been appointed with considerable power in the interests of public health. Recently there was drawn up a long list of products which could be sold only on the prescription of a medical practitioner. There was considerable uproar in the drug trade, with the result that the list was cut down until eventually it consisted of a very small number of preparations, including amidopyrine, dinitrophenol, phenylcinchoninic acid and thyroid gland.

A more recent proposal of the Board is to charge a registration fee of 25 dollars for every drug and cosmetic which is registered with the New York City Board of Health, and an annual renewal fee of 10 dollars. Registration has been compulsory for some time, but no fee has been payable. Serious opposition will be raised to this new proposal. It is of interest to English pharmacists that, of this Board of five members, four are physicians and there is no one on the Board with the slightest interest in commercial pharmacy. Efforts are being made to rectify this.—*Judex* (3/9).

A PHARMACEUTICAL THOROUGHFARE.—" There can be few streets in the world of comparable length containing so many chemists' shops as the Strada Reale in Valletta (Malta)."—" The Morning Post."

A FORGOTTEN CHEMIST AND APOTHECARY.—" Brodie [Sir Benjamin Brodie, M.D., 1783-1862] gained some knowledge of materia medica, for by Dr. Baillie's advice, when he had no subject for dissection, he attended a chemist's shop at the corner of Little Newport Street. The proprietor of it, one Mr. Clifton, also practised as an apothecary, exercising his art among the tradesmen of the neighbourhood. His treatment of disease was simple. He had in his shop five large bottles—' Mistura Salina,' ' Mistura Cathartica,' ' Mistura Astringens,' ' Mistura Cinchonæ,' and some kind of white emulsion for coughs, and out of these he prescribed for two-thirds of his patients. Brodie did not set this down to his discredit, for ' I have observed (he wrote) that while young members of the medical profession generally deal with a great variety of remedies, they generally discard the greater number of them as they grow older, till at last their treatment of disease becomes almost as simple as that of the Æsculapius of Little Newport Street.' "—H. E. Mansell, B.M., in " The Lancet."

Potassium Permanganate as an Antidote

TO a recent issue of "The Journal of the American Medical Association" (105,7,502), Dr. Robert A. Hatcher has contributed a study of the chemical action of potassium permanganate on several alkaloids and other organic poisons. The author remarks in his second sentence that potassium permanganate is commonly recommended as an antidote for organic poisons in the stomach. This indiscriminate recommendation, however, has never been sanctioned in the pages of *The Chemist and Druggist Diary* devoted for several years past to antidotes for and other treatment in poisoning.

Dr. Hatcher proceeds to prove his second point in the same sentence, namely, that there is a striking divergence of opinion concerning the amount to be administered and the strength of the solution to be used, by an apt illustration. One author states that in cases of barbitone poisoning the stomach should be washed out with diluted (pink) permanganate solution. Asked to select from several flasks the one containing a "pink" solution of potassium permanganate, a physician selected one —of the strength 1 : 1,000,000 (1 mgm. in a litre). Experiments show that potassium permanganate does not decompose barbitone, or decomposes it so slowly as to be valueless in actual poisoning; and even if it were chemically effective, 1 mgm. would not oxidise more than 3 mgm. of barbitone, less than 0.03 per cent. of a fatal dose. On the other hand, a second author recommends that in cases of hydrocyanic acid poisoning half a litre of 3-5 per cent. permanganate solution be administered immediately. The larger of these doses (25 gm. of the salt) is about 25,000 times as much as the one suggested by the first author in barbitone poisoning. About half this larger dose has been found to be fatal, and toxic symptoms have been observed with much smaller doses.

The following were the principal factors guiding the scheme of the investigation:—

(1) The rate of decomposition in acid, neutral and alkaline solutions.

(2) The amount of potassium permanganate required to decompose a given weight of a substance; and, conversely, the total amount of potassium permanganate that is decomposed by a given weight of a substance.

(3) The effective concentration of the reagent.

(4) The influence of protein, caffeine and tannin (tea and coffee) on the rate of destruction of poisons.

The strengths of the solution used in most of the experiments were either $N/10$ or $N/100$. When an excess of potassium permanganate solution was added to an alkaloid, the products of decomposition continued, sometimes, to reduce the permanganate at a much slower rate, and the weight of permanganate reduced was in some cases six times that of the alkaloid. Measured amounts of permanganate solution were added to a solution of each poison; after an interval varying from two minutes to half an hour any undecomposed alkaloid was extracted by adding sodium bicarbonate and chloroform, shaking, distilling the chloroform and testing the residue with Valser's reagent. In a few cases the amount was estimated biologically.

Specific Findings

Codeine sulphate is decomposed promptly by an excess of the permanganate in acid, alkaline or neutral solutions: it ultimately reduces from three to six times its weight of the permanganate, and in this respect behaves much like morphine.

Strychnine sulphate in alkaline, neutral or acid solution is decomposed rapidly by a great excess of the permanganate: with only a slight excess the reaction requires several minutes. In one experiment strychnine sulphate was treated with six times its weight of the permanganate in a slightly acid solution, and after three minutes only a trace of strychnine remained. In another experiment strychnine sulphate with eight times its weight of blood albumin was treated with eight times its weight of the permanganate in an alkaline solution for two minutes, when only traces of the alkaloid remained. The author points out that in an acid solution the albumin would have been decomposed more rapidly and the strychnine more slowly.

A specimen of aconitine, dusted on a solution of the permanganate, decomposed slowly. A specimen of aconitine sulphate, dissolved in water, was decomposed instantly by the permanganate. Similar findings apply to veratrine and veratrine sulphate.

Phenol reduces the permanganate at once in an acid, neutral or alkaline solution. Beechwood creosote is decomposed almost instantly when shaken with a solution of the permanganate. Trinitrophenol behaves similarly.

Salicylic acid and acetylsalicylic acid are decomposed by the permanganate more slowly in alkaline than in acid solutions. Amidopyrine is decomposed almost instantly by this reagent in any of the three types of solution: antipyrine is decomposed promptly by three times its weight of the reagent in an acid solution and much more slowly in an alkaline one. Acetanilide is decomposed slowly in any of the solutions mentioned. Picrotoxin is decomposed in an alkaline solution in a few minutes by twice its weight of the permanganate; more slowly in an acid solution.

Barbitone, sulphonal, chloral hydrate and a few other hypnotics are unaffected, or are decomposed so slowly as to preclude the effective use of the permanganate. In the case of dial poisoning a 1 : 5,000 solution of the permanganate may be used to wash out the stomach.

Cocaine, atropine and pilocarpine are decomposed slowly in acid, alkaline or neutral solutions. Most of the quinine sulphate in a neutral or acid solution is decomposed almost instantly by about twice its weight of the permanganate; more slowly in an alkaline solution.

The presence of tea or coffee in the stomach is of some importance in this connection. Caffeine is decomposed by about its own weight of the permanganate, the rate of the reaction increasing with the acidity. It is nearly complete in fifteen minutes with 0.4 per cent. of hydrochloric acid, but is not complete after several hours in a neutral solution when a barely sufficient quantity of the reagent is added. Tannin is decomposed by potassium permanganate almost immediately. An attempt was made to determine the difference in the decomposition of morphine with the reagent in the presence of tea or coffee. It was inferred that when morphine is present in the stomach with either of these beverages the amount of the permanganate administered should be at least sufficient to decompose the tannin and the morphine. The presence of cane sugar in such cases may be disregarded.

Conclusions

The author's summary of his findings includes a few general statements not made in the body of his monograph. He expresses the view that potassium permanganate has a distinct but limited field of usefulness in the treatment of cases of poisoning. The permanganate may be used for the destruction of hydrocyanic acid or cyanides in the stomach, but only in an alkaline solution. It should not be depended upon to destroy any poison entirely. It may be used orally in strengths from 1 : 2,000 to 1 : 5,000, and in the strength 1 : 5,000 for washing out the stomach. It is useless in cases of poisoning by atropine, cocaine, yellow phosphorus, or most of the hypnotics. It may be used for washing out the stomach in cases of poisoning by phenol or creosote, but it cannot safely be administered in doses sufficient to decompose otherwise fatal quantities of either poison. It decomposes protein much less rapidly than it decomposes certain poisons. There is no justification for the intravenous, subcutaneous or intramuscular injection of the permanganate for the destruction of any poison in the circulation.

AN UNUSUAL BOTANIC GARDEN.—"The botanical garden in München-Gladbach is not, like most other gardens, arranged by the usual systems, as Jussien's, Endlicher's, de Candolle's, etc., but almost exclusively according to biological principles, as, for example, by contents and active constituents. So that one can comfortably invade the preserves of pharmacognosy and pharmacodynamics, since every plant is provided with a descriptive label. In consequence of this method of arrangement, the garden is adapted in surpassing fashion to the perfecting and amplifying of herbariums."—"Pharmazeutische Zeitung."

Industry and Trade in Newfoundland

THE latest report by H.M. Trade Commissioner in Newfoundland and the Maritime Provinces of Canada (Mr. H. F. Gurney) on "Economic Conditions in Newfoundland" (H.M. Stationery Office, 2s.) gives evidence of an increase in 1934 of $3,455,165 over the previous year's figures. Some passages from the report, given below, will be sufficient to indicate the generally optimistic conclusions of the Commissioner.

Present Position and Outlook

Until there is a considerable change in general world conditions, particularly in the countries importing codfish, the future must continue to give cause for some concern. Present and future conditions present problems of difficulty in view of the important position which this industry holds as the source of new wealth each year to the Island. There has been encouraging evidence of business improvement in the amount of revenue. The returns for the last six months of 1934 showed an increase, over those for the corresponding period in 1933, of $1,121,384. Newsprint is now the largest item in export trade, although the codfishery is still the chief source of employment and continues to occupy directly about one quarter of the population. Under the Commission Government a fishing policy which aims to be definitely constructive is gradually being introduced.

Codfishery

The codfishery is the principal factor affecting the prosperity of Newfoundland. During the past few years, owing to the lower purchasing power of the people in countries where codfish is consumed, to exchange and currency difficulties, and to greater competition from Iceland and Norway, returns to fishermen have been meagre and in some cases, owing to lack of fish, certain sections of the country have had no returns at all. The decline in the value of the returns to the codfishery is in a large measure the principal cause of the Island's recent financial difficulties and troubles. It is estimated that the catch during the 1934 season was some 200,000 quintals (112 lb. = quintal) higher than the previous season and prices were 10 per cent. higher. The quality of the oil showed a decided improvement. Whilst on the whole fishermen have benefited, it cannot be said that the merchants have profited equally; trading was particularly difficult during 1934. Exchange restrictions and the consequent locking up of capital in foreign countries have a serious effect and make the future outlook uncertain and hazardous.

The 1934 codfish catch is estimated by the Department of Natural Resources to be:—160,000 quintals bank fish; 700,000 quintals shore fish; 400,000 quintals Labrador fish; total, 1,260,000 quintals.

Exports for the year ended December 31, 1934, were about 100,000 quintals more than in 1933. Stocks on hand are very limited, so that there will be no serious "carry-over" to interfere with the new catch. Direct shipments to European markets are regulated by a committee composed of representatives of two shipping groups, and of the Department of Natural Resources. Flooding of the import markets and depression of prices are thus avoided. A contributor in the Newfoundland Journal of Commerce has written: "The world consumption of salt fish is rapidly overtaking, if it has not actually overtaken, the normal production. Salt fish is one of the few world commodities to-day of which this can be said truthfully. Despite increased exports, no Newfoundland markets have excessive stocks. This feature offers definite encouragement and should be a source of some confidence in the minds of those engaged in the fisheries and the fish exporting business."

Fishery Investigations

The Fishery Research Laboratory of the Department of Natural Resources carries out work both on the technical and biological sides. Studies have been made of the factors necessary to ensure a first-class cure of salt codfish, and the conclusions reached will be put in practice at a new experimental curing station now being erected at the laboratory. Investigations have been directed at improving the quality of cod-liver oil and towards developing an economical method of preparing non-freezing oil. Increasing amounts of the latter are, as a result, being exported, and the vitamin content of the oil, as also its other qualities, are certified after analysis by the laboratory. From selected oil, emulsions are being prepared. The first of these has been very favourably accepted by the local market and sales abroad will probably be capable of being effected. The laboratory gives an analytical service to the trade. Considerable numbers of cod have been tagged, and the movements of the fish are being studied by this means and by more theoretical methods, with the notable result that local enterprise is adopting the method. In the summer and autumn months salt codfish will be landed in Newfoundland, and in the winter months fresh fish will be landed in British ports. It is felt that the regularity of supplies ensured by trawlers will enable canning and by-product industries to be established.

In 1934, 419 whales were taken and employment given to about 180 people. The total production was 16,085 barrels of oil. There appears to be a shortage of whales, and it is possible that one or two stations will suspend operations.

Other Industries

Secondary industries are carried on by a number of firms in St. John's and some of the Outports, amongst them the following:—Aerated waters, 8; chemicals and drugs, 2; fish oils, 13.

The results of last year's operations in cod-liver oil were fairly satisfactory and much better than those of the previous year. The shortage in the shore industry during 1933 created such a shortage in the supply of common cod oil that the price for this industrial oil advanced over 50 per cent. A slightly higher price was obtained for the highest medicinal quality, and only small lots were on hand at the beginning of 1935. The demand for genuine cod-liver oil appears to be increasing. A stricter Government inspection of factories and quality of oil was made during the past year, and plans are in train for the enforcement of even stricter regulations during the current year. Exports of cod-liver oil during the past ten years included the following:—

Year	Imperial gallons	Value in $
1924–25	77,484	76,533
1926–27	276,273	328,123
1928–29	364,239	492,763
1930–31	118,487	120,922
1932–33	184,641	167,873
1933–34	169,123	114,935

Market for U.K. Chemicals

The total imports of the United Kingdom amounted to $65,594 and were approximately the same as the previous year. The United Kingdom increased its exports of medicines, acetic acid, etc., on which a 10 per cent. *ad valorem* preference was granted at the Imperial Economic Conference. This preference, which is still in effect under the new tariff on chemicals, drugs and dyestuffs should assist in obtaining a greater volume of business for United Kingdom firms. The drug trade is now served by twenty-three stores throughout the Island, thirteen of which are in St. John's. In places where there are no retail drug stores the general stores carry supplies of the common household drugs and patent medicines. Many of the doctors do their own dispensing.

INSTITUTE OF CHEMISTRY.—A well-printed brochure has been issued by the Institute of Chemistry by way of placing on record the proceedings on July 9 and 10 in celebration of the granting of its charter. Among the names of pre-charter Fellows are those of Mr. Frederick Bascombe, Ph.C., Dr. Leonard Dobbin, Professor Percy Frankland, Sir Frederick Gowland Hopkins, and Mr. C. T. Kingzett.

The Chemist in Brewing

By "Microscope"

BY the uninitiated the function of chemistry in brewing is often entirely misunderstood. The function of a chemist in a brewery is not to find substitutes for malt and hops, but to test the different supplies of barley-malt and hops to ensure that they are of the best quality, to select the best and most suitable types of yeast for pitching the beers, and generally to watch with a scientific eye the whole process of manufacture in order to ensure that the resulting beverage is as pure as possible and of the best flavour.

From very early days brewers realised that in producing an article for public consumption every possible means should be employed to ensure the purity and the quality of their beers. As far back as 1871 Pasteur studied fermentation at Whitbread's Brewery in Chiswell Street, London, E.C., and his microscope is preserved in working order in the brewery chemical laboratory to this day.

The erroneous belief that the work of a chemist in a brewery is the preparation of noxious chemicals for addition to the beer in place of malt and hops is fostered by amazing statements which appear from time to time in the popular Press. A short while ago we were told by a daily newspaper that an eminent surgeon had stated that beer was a chemical mixture, and the journalist, who happened to know the names of a few drugs, proceeded to append a list of them with the statement that the brewers used them. In reality much of the brewery chemist's work consists in determining the purity and suitability for brewing purposes of the various raw materials—malt, hops, water. Malts of one season may differ widely from those of another, even when from the same district; malts from different districts or differently "cured" possess different qualities, and an exact knowledge of these differences is essential to the brewer. The aroma and preservative value of different hops are often markedly distinct; while a hard water, such as is required for the brewing of a pale ale, is not suitable for the brewing of stout.

Cleanliness Essential

A constant watch on brewery cleanliness is kept by the chemist, and it is noteworthy that a point which almost invariably strikes the visitor to a well-conducted brewery is the extreme cleanliness of all the rooms and vessels into which the beer is run at each stage of its manufacture. A frequent comment is, "What an excellent hospital ward this room would make!" and not only is this true, but many of the rooms used in the earlier part of the brewing process would even make admirable operating rooms.

The brewery mains are steamed immediately before use, but the theory that all bacteria must have been killed thereby is not sufficient for the chemist; he takes samples to prove that it is so. Beer casks are thoroughly steamed and scalded with hot water every time they are returned to the brewery, but samples are taken from time to time to establish the efficiency of the method.

A very large proportion of the beer these days is put into bottle, and consequently the cleanliness of the bottles and stoppers must be ensured, since in order to get that natural effervescence which is the charm of a naturally conditioned beer, the beer must be kept in the bottle for at least a month, and any contamination would be dangerous.

There is an old saying, "All beers are good but some are better than others," and it is important to know at what time a given beer reaches its prime. Every beer reaches a peak of condition and then begins to fall off. By means of "forcing" tests one is able to foresee the time at which a beer will reach its prime.

Another important part of the chemist's duties concerns the utilisation of by-products. Experiments are constantly being made to determine the best outlet for such waste products as "grains," spent hops and yeast. The last increases about five-fold during fermentation, so that if 1 cwt. is put into a fermenting vessel about 5 cwt. will result, of which 1 cwt. will be required for the new brew. Consequently from that one vessel there are 4 cwt. of a by-product for which the best use has to be found. Numerous problems are brought to the chemist for solution, but there is no room in this article to touch upon them; let it suffice to say that brewery chemistry offers scope for a great deal of scientific research.

The N.H.I. Drug Tariff

THIS now-familiar green-covered octavo booklet plays an important part in the insurance chemist's life. There is hardly a situation that arises in connection with his State service that the Tariff does not deal with, scarcely a question relating to his insurance dispensing that it will not solve. It considers all classes of medicaments, it treats of every kind of prescription, it furnishes descriptions of plasters and dressings, and does not disdain to mention prices of bottles. It forms a useful guide to the new dispenser from the time he receives his first prescription to the time he endorses his cheque.

There is a history behind each clause in the first part of the book in which principles are clearly enunciated—history which, to those who remember early insurance days, speaks of conference and argument, of battles lost and victories won. The book is a monument to the efforts of chemists' representatives to secure a clear-cut, unequivocal statement of the terms on which chemists are to undertake insurance dispensing. At one time the Tariff was issued as a double foolscap folder, and the directions for its interpretation were few and simple. But much has happened since bargaining took place on a local basis; the chemist's position has been consolidated, and now the National Pharmaceutical Union is recognised as the official body with which, through its Executive, the Ministry of Health can treat. Questions affecting all chemists are discussed and settled on a national basis, and different clauses in the Drug Tariff testify to the willingness of the Ministry officials to consider the reasonable proposals of the Union. It must not be forgotten that behind all the Government departments and their activities looms the Treasury, which steps in when spending is in question and requires to be satisfied before giving its consent to the proposed concession or expenditure. Yet the Tariff stands as a fair exposition of what the nation requires of its official dispensers.

Payments to Chemists

The first part lays down principles to be followed in computing the amount to be paid to the chemist. The second part sets out the fees he will be paid for dispensing different classes of prescriptions. The third part shows him the drugs and compounded preparations he will be expected to keep in stock, and the prices allowed for them. The fourth part gives specifications for the appliances he should always have on hand, together with the prices allowed. It also clearly shows him his course in certain cases of ambiguity. Standards for certain dressings are shown in the fifth part, and the prices to be charged for containers in the sixth and last part. The Tariff is published every six months. No change is made in it without the proposals being referred to the National Pharmaceutical Union, so that the book may be taken to be an agreed publication. Chemists would be well advised to examine each edition of the Tariff as it reaches them, for changes in detail sometimes take place to which attention may not be specially drawn at the time but which may affect the contractor's remuneration. The Insurance Committee is required to notify each contractor of any alteration in his terms of service; but it is probable that circulars and notices are not always given careful attention by busy pharmacists.—SCRUTATOR (22/11).

LAVENDER IN THE NEWS.—"'There is glut of lavender just now,' a flower-salesman told me. 'A Norwich grower was offering some yesterday, already stripped, for what it would fetch. There is not much demand nowadays.' . . . 'There may be a few lavender girls left still,' my Covent Garden man said, 'but we don't see much of them in London.'"—"The Daily Telegraph."

GOVERNMENT DEPARTMENTS' ENGLISH.—"Everything is controlled (or 'conditioned') to-day. Could not some central authority control, censor, or 'condition' the language of Government departments? I have been reading sadly the Home Office Memorandum on Air Raid Precautions. Must we have 'decontamination of personnel'? This means 'cleansing of persons' (as opposed to clothes). Why not say so? And must 'cases be evacuated' from hospitals when what is meant is 'moved' or 'transferred'? A Ministry of Labour document is headed 'Reconditioning of Boys for Hotel and Catering Trades.' Must even our boys be 'reconditioned'?"—Mr. A. P. Herbert in "The Times."

Ancient Scottish Weights and Measures

By "Historian"

THE ancient weights and measures of Scotland offer a vast field for research to the student of history: indeed, so wide is this field that the writer feels he has but touched the fringe of this most fascinating subject. Comparison of the old standards, mystifying in the extreme, with the existing methodical and convenient imperial system leaves no room for doubt that we have progressed, and have so simplified and standardised our methods that manufacturing and sale by weight and measure is practically perfection.

Scotland derived her early weights and measures chiefly from England during the twelfth century; and although they were of a very curious character, they nevertheless met all the requirements of a then uncommercial people. From the early statute-books we learn that many regulations were made concerning the codifying of weights and measures. The first of these was an Assize of David I of Scotland made at Newcastle. The second was made in the reign of Robert II. Neither of these sets of regulations bears a date, but in the reign of Robert III there was framed a new set of regulations dated 1393. The fourth set was in the fourth Parliament of James I (1426); the fifth in the reign of James II (1457); the sixth in the reign of James V (1587); and the seventh and last assize of general regulations by James VI (1618).

In the period comprising the reign of David II the town of Thurso in Caithnesshire was the great "mart" for trade between Scotland and Norway, Sweden, Denmark and the Baltic ports, which explains the reason for the following statute of that time:—

> "It is Statute be King David that Ane Comon and equal weicht qubilk is called the weicht of Caithness Pondus Cathaniai in buying and selling Sall be keeped and Vsed be all men in this realm of Scotland."

Notwithstanding the statutes made from time to time the people continued to trade in their own local customs of weights and measures, so that matters became chaotic. Every county became a law unto itself, and even towns in the same county varied from one another, thus creating worse confusion. The Scots Parliament then took matters in hand and instituted standards of weight, capacity, etc., and apportioned the custody of the pound to Lanark, the reel to Perth, the firlot to Linlithgow, the jug (pint) to Stirling, and the ell to Edinburgh. However, these standards were very carelessly kept after a time, and did not prevent the usages of Scotland becoming discrepant with those of England, or from assuming various perplexing local peculiarities. Thus we find in Caithness the firlot contained a bushel and a half and two quarts Winchester measure. Oatmeal was sold by the "boll" of 136 lb. Dutch weight. All liquids the produce of the county were measured by the pint of eighteen gills with the exception of spirits, which were sixteen gills to the pint. Wool was sold in stones of 24 lb. Dutch. (The Dutch lb. was equal to 17½ oz. avoirdupois.) The Banffshire firlot contained 31 pints, each 6 per cent. above the standard. The boll of barley in Banffshire was 17 stone, but that of potatoes was 32 stone.

Liquid Measures

Among the liquid measures of the county was the chopin, which contained four Banffshire gills and was equal to two English pints. Two Banffshire pints equalled $\frac{39}{40}$ English gallon. Butter, lard, etc., were sold by the 24-oz. lb. The general rule in the sale of grain and potatoes was to heap the measure, for such commodities were invariably apportioned by measure; but oat and linseed meal were rolled off above the stave. This no doubt was on account of varying densities. Here again we have the anomaly of a stone of wool being 2 lb. more in the county than in the town of Banff. The lowest denomination of land in Banffshire was the "fall," which was equal to 36 square yards. Coming to Argyllshire we have the "boll" for grain containing 4 firlots, or 6 bushels, 1 peck, 9 pints 10 cubic inches English, and the boll of meal was 8 stone; but at Campbelltown in the same county the boll was 10 stone. There is also mention of the Campbelltown potato peck of 56 lb. which measured nine English wine gallons. The pint contained 109.87 cubic inches, the lb. 16 oz.; but at Inverary the pound was 24 oz. Lint, tallow, butter were sold by a stone of 24 lb. avoirdupois, and the barrel of herring contained 32 English gallons.

Coming next to Dumbartonshire, we find that prior to the Act for equalisation of weights and measures, groceries and English goods were sold by avoirdupois, meal by Dutch weight, and fat, butter and flax were sold by Tron weight. The Dumbarton pint was 2.9 cubic inches less than the standard. Here may be mentioned another anomaly, the Dumbarton firlot, which contained 1 firlot 3 pints, 1 chopin 3½ cubic inches of the old standard measure. Wheat, peas and beans were sold by this measure, but malt, barley and oats were sold by a firlot of 1 firlot 2 pints capacity.

Thus it will be seen the whole country was in a state of unmitigated confusion, and the change over to uniformity as we know it to-day was a tedious process. From time to time reforms were deliberated upon, pamphlets were circulated extolling the newer systems, but the people were "thrawn" and coolly neglected the regulations. Neither law nor logic could move them from their old practices. The dissimilarities which arose during the Feudal times continued to puzzle the theorists and perplex the merchants right down the centuries till the introduction of the imperial system on January 5, 1827. The weights used by the old Norwegian settlers were formerly in use in Orkney and Shetland. For weighing cereals the instruments used were called pundlers and bysmars, and the weights were marks, setteens, hyspunds and meils. Other queer measures used in Scotland were the "waterpeck" for potatoes, and the weight held was 42 lb. Lime was traded by "chalders" of sixty-four bushels, but lime shells by "chalders" of thirty-two bushels. The rood was 6 square yards, the score of sheep twenty-one, and the stone of wool 17 to 22 lb. For beans, peas, etc., the measures were half-forpets, forpets, half-pecks, pecks, half-firlots and firlots, each from the lowest having double the capacity approximately of its predecessor. The firlot was approximately 86 lb. 11 oz. 6 dr. Fruit was traded by the "sleek" and lower denominations of that measure. The sleek of fruit weighed 80 lb. 10 oz. 15 dr. Strangely enough "onions" were traded by the "onion sleek" of 64 lb. 8 oz. 12dr. For wine, oils, spirits, vinegar, etc., the following liquid measures were used:—½ gill, gill, ½ mutchkin, mutchkin, chopin and pint. This pint was equal to 1 lb. 3 oz. 12 dr.; but ale, beer and buttermilk were traded by a pint which exceeded 4 lb. Eight Scots pints were approximately equal to three imperial gallons. Special instructions were given that the gallon measure used for measuring linseed oil was to be kept clean, or the incrustation would inevitably lessen the capacity. In spite of the haphazard measures with all their inconsistencies, we cannot but admire the meticulous care enjoined upon users by those responsible for issuing the measures. Next on our list comes a trite liquid measure table, 1 Scottish pint = 2 Scots chopins = 2 English pints, but this must have applied to some particular district or liquid such, probably, as ale and beer. The same table states that 20 Scots pints equal 1 anker. The anker was a brewer's measure.

Aberdeen Usage

In Aberdeen the "boll" was 1 $\frac{1}{5}$ that of the Linlithgow standard and was four Aberdeen firlots of 136 pints of 60¾ oz. each. The brass standard bushel of Queen Anne (1707) used in City of Aberdeen was thirteen cubic inches less than the Winchester standard, but the County bushel was forty cubic inches less. In Berwickshire potatoes were sold by measure; six fills of the corn firlot up to the edge of the wood or a little further, or four fills heaped by hand as high as they could go, were contained in one boll. The phraseology is very quaint. The Berwick boll was 9 Winchester bushels or 476 English pounds. Fresh butter was sold 18 oz. to the lb. The firkin of 56 lb. was used for salt butter, but the regulations allowed 2 lb. extra to replace the brine. (I am afraid the butter had a flavour of its own.) In Fifeshire the Tron system was used, 16 lb. to the stone and 20 oz. to the lb. for wool, butter, lard and fat; and Dutch weights for butcher's meat except in the town of Kirkcaldy, where Tron weights were used.

(To be continued.)

Trade Notes

1936 CALENDARS.—Dudley & Co., Ltd., 451 Holloway Road, London, N.7, inform us that they have recently issued a new list of advertising calendars for 1936. This list will be sent to chemists on request.

GILLETTE BLADES.—Gillette Industries, Ltd., 197-207 City Road, London, E.C.1, remind our readers that the Blue Gillette advertising campaign has again been extended, to September. The statement is made that sales of these electrically tempered blades continue to increase. Showcards for window and counter displays are available on application.

CHEMISTS' SIGNS.—Scintillating Sign Service, 68A Colebrooke Row, Essex Road, London, N.1, are offering chemists' signs of which they are actual makers. Chemists are invited to send for illustrated catalogue of illuminated and non-illuminated signs. A booklet is obtainable showing the signs which have been designed and made by the company for their customers. Copies may be obtained on application.

HOT WATER BOTTLES.—Reliance Rubber Co., Ltd., Cremorne Works, Lots Road, Chelsea, S.W.10, make the novel announcement that they prepare and sell "the second-best moulded seamless hot water bottles in the world." Reasons why Reliance hot water bottles should appeal to the trade are given in our advertisement pages. A new design of bottle, described as of "hammered metal with reinforced edges," is illustrated herewith.



"HELP YOUR NEIGHBOUR" CAMPAIGN.—The "Daily Express" invite chemists to write for full details of their "Help Your Neighbour" campaign, and the "Daily Express" National Shop Window Display Contest. Cash prizes to the value of £1,500, together with three silver cups for the best window displays submitted by retailers, are offered. In addition, prominent manufacturers have again come forward with cash prizes for the best displays of their products. Last year's total cash awards reached the sum of £4,500.

CLOTABS ADVERTISING CAMPAIGN.—Macleans, Ltd., Great West Road, Brentford, Middlesex, announce in this issue the commencement of their winter advertising campaign in favour of Clotabs, which present halibut-liver oil extract in tablet form and contain vitamins A and D. The statement is made that after three months' advertising "Clotabs became a National seller." Supplies are offered at advantageous rates. Full particulars are given in our advertisement pages.

ATOMISERS.—Britton, Malcolm & Waymark, Ltd., 38 Southwark Bridge Road, London, S.E.1, draw attention to two atomisers of entirely British manufacture. One is described as a pocket atomiser and is intended either for aqueous, alcoholic or oily solutions. The second type is intended for use in throat and nose complaints and the medicament may be either oily or aqueous. It is noteworthy also that this company issues a tannic acid spray outfit for burns, together with a supply of tablets, on advantageous terms. The value of tannic acid in the treatment of burns is now generally accepted, and this outfit should meet the demand for an economical apparatus.

CHEMICAL ODOURS.—"Of the 2,000,000 chemical compounds about 400,000 are pleasing to the sense of smell. . . . One of the strongest-smelling substances is vanillin, of which we can detect with the nose 0.000,000,000,000,2 gm."—"Drogisten Fachblatt."

CHANGES OF ADDRESS.—Our subscribers are requested to note that in all advices of this kind it is necessary to have both the old and new address, as our lists are kept alphabetically by towns in order to meet with the requirements of the postal authorities. Such advices should reach us not later than the first post on the Wednesday morning prior to going to press with the issue which it is desired to divert.

Trade-Mark Applications

The figures in parentheses refer to the classes in which the marks are grouped. A list of classes and particulars as to registration are given in "The Chemist and Druggist Diary," 1935, p. 323.

(From "The Trade Marks Journal," August 14, 1935.)

"LA TOJA" under building illustration; for medicated preparations such as soaps, etc. (3). By S. A. "La Toja," Calle Michelena No. 30, Pontevedra, Spain. 559,138. (Associated.)

"DIOTEX"; for medicated preparations (3). By Knox Laboratories, Ltd., 81 Lamb's Conduit Street, London, W.C.1. 560,418.

"ATIM" and "PEDANTO"; for medicated preparations for the feet (3). By Topax, Ltd., Barclays Bank Chambers, Otley Road, Shipley, Yorks. 560,916/561,439.

"NOVOBRON"; for medicated inhalants for asthma, bronchitis, hay fever and nasal catarrh (3). By A. Q. Tucker & Co., Ltd., 491 Oxford Street, London, W.1. 561,032.

"BISURATED"; for medicinal chemicals (3). By Bismag, Ltd., Braydon Road, London, N.16. 561,459. (Associated.)

"STERILOCAINE"; for anæsthetics (3). By Pharmaceutical Manufacturing Co., Ltd., 39/40 Aldersgate Street, London, E.C.1. 561,501.

"HOT MIKES"; for medicinal chemicals (3). By W. B. Cartwright, Ltd., Lakeside Works, Mount Vernon Road, Larkfield, Rawdon, Leeds. 561,568.

"EYETEX"; for philosophical and scientific instruments (8). By Merx Optical Co., Ltd., 67/68 Hatton Garden, London, E.C.1. 560,288.

"KOLPAR"; for optical instruments (8). By Carl Zeiss, Carl-Zeiss-Strasse, Jena, Germany. 561,535.

"CALORAY"; for toilet lotions in permanent waving (48). By The General Surgical Co., Ltd., Rosebery Avenue, London, E.C.1. 559,538.

"CHIFFON"; for perfumes and cosmetics (48). By Alfred Franks & Co., 37 Hatton Garden, London, E.C.1. 559,699.

"TAO"; for perfumery, etc., excluding soap (48). By Eileen Ingram, 22B Avonmore Road, London, W.14. 560,741.

"CHRISTMAS BELLS"; for perfumery, etc. (48). By Parfums Molinard, Ltd., 52 Brook Street, London, W.1. 561,349.

(From "The Trade Marks Journal," August 21, 1935.)

"TERIC"; for chemicals for treatment of scour in pigs (2). By The Pig Breeders Supply Co., Hammonds Farm, Checkendon, Reading. 559,141.

"INVICTACIDE"; for insecticides, etc. (2). By Thomas Hill-Jones, Ltd., Bow Common Lane, London, E.3. 560,806. (Associated.)

"PAREX"; for insecticides, disinfectants, etc. (2). By J. D. Riedel-E. de Haën, A.-G., 1-32 Riedelstrasse, Berlin-Britz, Germany. 558,578. (Associated.)

"DARELAVOL"; for chemicals (2). By Chemische Fabrik Marienfelde, G.m.b.H., Grossbeerenstrasse 46-52, Berlin-Marienfelde, Germany. 559,663.

"PULVEX"; for veterinary chemicals, etc. (2) and for insect repelling preparations for personal use (3). By Cooper, McDougall & Robertson, Ltd., Ravens Lane, Berkhamsted, Herts. 560,598/599. (Associated.)

"KRUSAL"; for a medicated saline (3). "DIGESTIF RENNIE PASTILLES" (or other goods) on check label design incorporating man's head with words "Before" and "After" and letters "D R" ("Digestif Rennie" and "D R" disclaimed); for preparations for indigestion, etc. (3). By E. Griffiths Hughes, Ltd., Peru Street, Salford, Manchester. 543,961; 560,456.

"KO-SALA"; for pills, tablets and capsules containing animal glandular extracts (3). By The Selka Trading Co., 109 Charlotte Street, London, W.1. 559,311.

"PULVULES"; for medicinal capsules (3). By Eli Lilly & Co., 740 South Alabama Street, Indianapolis, Indiana, U.S.A. 552,984.

"EXCLUDD"; for belladonna and digitalis suppositories (3). By Dr. Rudolf Reiss Rheumasan- und Lenicetfabrik, Erasmusstrasse 20/24, Berlin, N.W.87, Germany. 559,123.

"NIXODERM"; for ointment (3). By Knox Laboratories, Ltd., 81 Lamb's Conduit Street, London, W.C.1. 560,420.

"WHIST"; for all goods (3). By The James Scott Manufacturing Co., 41 Boleyn Road, Dalston Junction, London, N.16. 560,858.

"BESORBON"; for medicinal snuff (containing no tobacco) (3). By Kemsales, Ltd., 20 Eastcheap, London, E.C.3. 561,001.

"CELLOSATIC" and "MAGNESISED"; for medicinal chemicals (3). By F. E. Coe, 37 Manchester Street, London, W.1. 561,198/200.

"REGULOSEM"; for herb seeds for constipation (3). By J. D. Boorman, 22 Cranworth Road, Winchester. 561,216.

Births

Notices for insertion in this column must be properly authenticated.

EVANS.—At Mount Street Nursing Home, Torquay, on August 15, the wife of T. D. Evans, M.P.S., of a daughter.

THOMAS.—At 39 Palmerston Place, Edinburgh, on August 30, the wife of H. T. Thomas, chemist and druggist, East Bowmont Street, Kelso, of a son.

Marriages

CLARKE—CROFT.—At St. Joseph's Church, Norton-on-Tees, on August 29, Norman William Clarke, chemist and druggist, to Freda Croft.

CHUTER—WILLIAMS.—At St. Mary Magdalene's Church, Addiscombe, Croydon, on September 4, Arthur James Chuter, M.P.S., F.S.M.C., Chippenham, son of Mr. Chuter, Cirencester, to Dorothy Margaret, daughter of Mr. Williams, Addiscombe.

EAMES—ALEXANDER.—At Knock Methodist Church, Belfast, on August 29, the Rev. W. E. Eames, Lurgan, to Meta, only daughter of Mr. R. B. Alexander (Jordan, Wilson & Alexander, Ltd., wholesale druggists), Belfast.

PULVERMACHER—WHEATLEY.—At St. Mary de Crypt Church, Gloucester, on August 31, by the Rev. Ivan Page-Wood, B.A., Vicar of St. Leonards, Bristol (brother-in-law of the bride), Francis Howard Pulvermacher, Cheshunt, Herts, to Marjorie Constance Denman Wheatley, younger daughter of Mr. A. R. Wheatley, M.P.S., F.S.M.C., Rock House, Barnwood, Gloucester.

Deaths

BURFORD.—At Rickmansworth, on August 29, Mr. Samuel Francis Burford, F.I.C., Ph.C. Mr. Burford passed the Major examination in 1883. He was public analyst for Leicester during a long period.

CAMPBELL.—On August 30, Mr. Andrew Campbell (Alexander Hope, jun., & Co., Ltd., manufacturing chemists, Garngad Road, Millerston, Glasgow).

FRANKLIN.—On August 29, Mr. A. W. Franklin, managing director of W. Smith & Co., Ltd., chemists, Abingdon, Berks.

NETHERWAY.—On August 29, after a short illness, Alison Mary, the younger daughter of Mr. Stanley Netherway, chemist and druggist, and Mrs. Netherway, 22 The Meadway, Buckhurst Hill, aged two.

SHARP.—At Horsforth, on September 3, Gertrude Oxley Sharp, widow of the late Mr. John Sharp (H. Sharp & Son, Ltd., manufacturing chemists, Park Mills, Armley, Leeds), aged seventy-four.

WHITNEY.—At a Dublin nursing home, recently, Mr. William George Whitney, L.P.S.I. Mr. Whitney passed the Licence examination in 1887, and for a long period carried on business at 4 Charles Street, New Ross, in succession to his father, retiring four years ago. He was a governor of the Haughton Hospital and a member of the local chamber of commerce.

Coming Events

This section is reserved for advance notices of meetings or other events. These should be received by Wednesday of the week before the meetings, etc., occur.

Monday, September 9

Pharmaceutical Society of Great Britain, Birmingham and District Branch, Imperial Hotel, Temple Street, Birmingham, at 9 p.m. Annual meeting.

Thursday, September 12

West Ham and Eastern District Association of Pharmacists and Branch of the Pharmaceutical Society. Opening meeting of session.

Pharmaceutical Society of Great Britain, Newcastle, District and Northumberland Branch. Students' night. Lecture and prize distribution.

Personalities

MR. ARNOLD ROY, Roys' (Wroxham), Ltd., chemists, etc., Wroxham, has been appointed a magistrate for Norfolk.

MR. J. RAND, who has recently resigned from the representative staff of T. F. Bristow & Co., Ltd., London, N.W.9, after thirty-four years' service with the company, has become the proprietor of the Feversham Arms Hotel, Helmsley, Yorks.

MR. W. F. PICKUP, M.P.S., who, with a partner, set up a new London-to-Brighton-and-back tandem tricycle record on September 1, is a member of the medicine chest department staff of Burroughs Wellcome & Co., Snow Hill Buildings, London, E.C.2.

MR. VALENTINE NORMAN, chemist and druggist, Godalming, and his family were the subjects of a number of paragraphs in the "Surrey Advertiser" of August 31. Mr. Norman is the father of triplets, all of whom have reached mature years. Of the two who are married, the son, Mr. K. V. Norman, chemist and druggist, is associated with his father in business.

MR. JOHN GIBSON, M.P.S., F.S.A., Hexham, was one of the guides at the recent outdoor meeting of the Newcastle Society of Antiquaries in the North Tyne Valley, and he gave addresses at Bellingham Church, The Mote Hills, Wark and Haughton Castle. Mr. Gibson recently wrote and illustrated the lantern lecture on "Tyneside and the Roman Wall," which is loaned by the London and North-Eastern Railway.

MR. EDWARD D. GLOVER, chemist and druggist, New Wortley, Leeds, has recently completed twenty-one years' service with the St. John Ambulance. Mr. Glover joined as a private in 1913, and is now superintendent of the Armley and Wortley Division. During this period he has obtained the First-aid certificate, Voucher silver medallion and eighteen First-aid labels for ambulance work. He holds the Nursing certificate and ten Proficiency pendants. He also possesses the Hygiene certificate with eight pendants, and he is the only officer in the City of Leeds with the Sanitation certificate and nine pendants. He obtained the Saint John Ambulance War Service badge for work in a military hospital in 1931; he was awarded the Service medal for fifteen years' continuous service, and in the following year he was admitted as a Serving Brother of the Order.



MR. E. D. GLOVER

Wills

MR. HARRY PETTIE, 26 Lamerton Terrace, Dundee, who died June 11 last, surgical instrument maker, left personal estate in Great Britain valued at £12,199.

MR. JEFFREY HARDMAN, North Boulevard, Kingston-on-Hull, chemical manufacturer, chairman of E. Hardman, Son & Co., Ltd., who died on December 16 last, left estate of the gross value of £8,070, with net personalty £7,417.

LIEUT.-COL. ALFRED CHARLES PRESTON, 8 Grovelands Road, Purley, Surrey, director of National Drug Industries, Ltd., Emmott Street, E.1, who died July 28 last, aged eighty, left estate of the gross value of £2,234, with net personalty £74.

MR. FREDERICK GEORGE SAUNDERS, 41 St. Leonards Road, Windsor, chemist and druggist, who saw service in the Boer War and with the French Army during the Great War (having been rejected by the British on account of his age), died on July 1 last, aged sixty-three, leaving estate gross value £8,775, with net personalty £7,413.

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Information Department

INFORMATION WANTED

Postal or telephone information with respect to makers or first-hand suppliers of the undermentioned articles will be appreciated.

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S/29 Etib prophylactic tooth brushes
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THE
CHEMIST AND DRUGGIST
VOL. CXXIII. September 7, 1935 NO. 2900

The Grocers' "Grouse"

THERE exists a Federation of Grocers' Associations of the United Kingdom which represents 235 affiliated associations of grocers throughout England and Wales, and approximately 40,000 shops. We understand that this Federation is presenting a protest against certain sections of the Pharmacy and Poisons Act, 1933. When so representative a body decides to present a petition in favour of members of its various associations, other trading sections of the community will no doubt take notice. Yet we ourselves are rather more interested in the proposals which it is understood will be put forward on behalf of the Grocers' Federation in view of the fact that reference is made to an article published in THE CHEMIST AND DRUGGIST, June 22, 1935, and written in trenchant fashion by Dr. E. J. Parry, F.I.C., Barrister-at-Law. Apparently the Federation of Grocers' Associations wish to put forward a scheme that the proposal to ban the sale of lysol or dilutions of lysol by "listed sellers" of Part II poisons is, among other suggestions, "likely to create confusion and difficulties for listed sellers without any public advantages." It is interesting to speculate as to what exactly are the public advantages to be obtained in having facilities for purchasing a poison from a grocer rather than a chemist. The statement is made in the petition that "whilst one cannot look with approval on the sale of diluted lysol, one has to remember that such sale is the result of legal restrictions placed on the sale of disinfectants of over a certain strength, and that the sale of a diluted lysol under the name of 'Lysol Solution' is within the law." We are at one with the Federation of Grocers' Associations in deprecating the possibility of obtaining a solution of lysol. Obviously the sale of diluted lysol, unless the package is very distinctly labelled, is fraught with serious danger to the public in view of the fact that in cases of sudden emergency a householder may purchase from a grocer or other vendor a useless solution of lysol instead of genuine and concentrated lysol. We have dealt with the quixotic views of the Poisons Board, especially in regard to the suggestion that a solution of cresylic acids if not labelled "Lysol" may be sold indiscriminately as a Part II poison, despite the fact that such a solution may contain a higher concentration of cresylic acids than does lysol.

An important point which appears to be overlooked by the Federation is quite a simple one, yet it is one which requires a certain agility of mind if it is to be put aside. That is, a pharmacist by his training is accustomed to handle poisons in all degrees of concentration. The mere fact that a poisonous substance is obtained from the chemist is an important indication to the purchaser that care is essential in using and storing the substance. It is surely reasonable to assume that to a person making a purchase of, say, a bottle of tomato sauce in a grocer's shop and at the same time ordering a bottle of lysol, the relative danger of the two substances is less evident than if the lysol were purchased from an authorised seller who is already firmly established in the public mind as competent to handle substances of this nature. If poisons such as lysol are to be sold indiscriminately by grocers—and if by grocers, why not by bakers?—why should a pharmacist go to the trouble and expense to qualify at all? A chemist's shop is open for sales to the public for the same time as, or maybe longer than, is the shop of the grocer; and it is fatuous, to say the least, to suggest that the public are the better served in obtaining dangerous poisons from a grocer, especially when they have the protective interest of the pharmacist in the handling of such substances.

Lysol is not the only substance which is on the agenda of the Federation for presentation to—we presume—the Home Secretary. In their comment on the sales of hydrochloric acid and oxalic acid they make the statement that it is cheaper to buy spirit of salt and salt of lemon from the grocer than from the chemist. This ingenuous argument may perhaps have been arrived at either on the assumption that the grocer can buy cheaper, or that he is more kindly disposed or more philanthropic, than the pharmacist! Other substances which are mentioned in the petition are solutions of ammonia, sodium hydroxide and potassium hydroxide, stavesacre, ipecacuanha wine—or, to give it its 1932 B.P. title, tincture of ipecacuanha—and acetanilide. Apparently the grocers are anxious to sell acetanilide for use in headache despite the fact that modern medical opinion is directly opposed to the use of this dangerous substance. The Federation suggest that the restriction of the sale of acetanilide to pharmacists gives an "undesirable monopoly." This word "monopoly" is one which fills legislators with dismay, but surely the time is approaching when pharmacists will be allowed to realise exactly what their qualification is worth. One aspect of the 1933 Act stands out, namely, that apparently there is official recognition of the need for the sale of poisons to be controlled. If this point be conceded it is obvious that concessions to retailers other than qualified chemists will endanger the intention of the Act to ensure a measure of protection in the public interest. If a pharmacist is to undergo a rigid training in order to handle poisons, and if he is penalised as regards fees for himself and shop in violent contrast to ordinary retailers, the time will come when the Government of whatever day it is, will have to decide whether or not a section of the trading community whose qualifications and whose knowledge are distinct assets to the country is to be squeezed out of existence. If the official view is that a pound of hydrochloric acid can be handed out with the same freedom as, say, a pound of sugar, then the question may indeed be asked, What is the value of the pharmaceutical qualification? It is, of course, impossible to blame the controllers of other trades for the aggressive attitude they take in putting forward their claims. That the Council of the Pharmaceutical Society have work to do in protecting the public—and, of course, the public include the pharmacist—is obvious; and we should like to think that a similar aggressive policy to that about to be followed by the Federation of Grocers' Associations will be adopted by the Pharmaceutical Society on behalf of the chemists of the country, who are laid under tribute to a degree which—at present, at any rate—is out of all proportion to the benefits that may accrue.

In the meantime, chemists may well consider it desirable to have ready a series of questions for presentation to members of the Council when the winter session opens so that the trade may know how that body proposes to deal with claims for concessions of which this is presumably the first to be staked.

Clove Oil "Monopoly"

THE recent announcement that the Zanzibar Legislative Council has signed an agreement under which British interests had been given a monopoly in that country for the production of clove oil seems to have created mild surprise in some quarters. Inquiry at the Colonial Office as to the terms of agreement brought forth the reply that "as the distillery was to be operated by a private company, no information as to the terms of the licence granted could be given . . ." It was, however, stated "that the export of clove stems from Zanzibar was being stopped." Coupled together, these facts do not make particularly pleasant reading, and the authorities concerned might be open to fair criticism if the present position, which on the one hand means a monopoly of production and world sales to one private company and, on the other, the complete stoppage of supplies of clove stems to those distillers in this country who, for many years, have been producing the bulk of clove oil consumed here, had been reached by secret negotiations between the Protectorate and the monopoly company. The facts are that some twelve months ago the Zanzibar authorities publicly invited any responsible person or firm to tender for the appointment, and, further, several months were allowed for tenders to be sent in. It seems, therefore, that the Zanzibar Protectorate, having decided that it was in the best interest of their island to encourage production of the oil domestically instead of exporting the stems, took the normal steps to give effect to that decision. This stoppage of exports of stems will at the least certainly mean the curtailment of production of oil in this country, and it will, to some minor extent, affect employment. Our industrial activities in this oil will undoubtedly suffer, but we can hardly blame the Zanzibar Government for handling the matter in a manner they considered best in their own interests. We have no liking for monopolies, particularly when they injure or smash established sources of supply, but, in this instance, the home distillers might have seen the danger light at the time the project was first mooted. It seems a little late in the day to do so now that the contract has been fixed up and signed.

Essential Oils Exemptions

THE Treasury Order issued this week notifying that oils of CANANGA, CASSIA, CHENOPODIUM, SPIKE LAVENDER and MANDARIN had been added to the Free List under the Import Duties Act, 1932, was long overdue, the applications having been published last April. Two other oils, NEROLI and PETITGRAIN, were mentioned on the application, but they do not appear in the list of exemptions, and no comment was made in the Treasury Order as to whether the applications in these instances had been rejected or were still under consideration. Upon inquiry in official quarters we were informed that the Advisory Committee had considered these two applications and had decided to take no action. They might well have said so in their report to the Treasury. The Committee's decision indicates that they are satisfied that adequate sources of supply within the Empire for neroli and petitgrain are something more than remote possibilities.

Doubt has arisen in some quarters as to whether the exemptions granted for free import of certain FLORAL CONCRETES cover the "ABSOLUTES." The term "concrete," as applied to these products, has been regarded in the trade as covering the "absolutes," and upon inquiry in official quarters qualified to speak on the point we learned that "absolutes" would be considered as covered and within the scope of the exemption orders for the floral concretes.

Better News from Newfoundland

THE 1935 report of the Trade Commissioner of Newfoundland, extracts of which are given on p. 297, are encouraging alike to those whose money is invested in that colony and as an indication of healthier conditions of world trade. It will be remembered that, since the last report was issued in 1933, the Royal Commission considering the financial situation of the colony (which includes Labrador) recommended that Newfoundland should appeal for the co-operation of the British Government in a joint plan of reconstruction. These recommendations were adopted, and the new Government of the island, which was one outcome of the recommendations, is assisting in rehabilitating the fisheries, stimulating agriculture and the lumber industry, and helping to develop the mineral resources. In addition, the customs tariff has been revised and simplified, and substantial reductions have been made in the duties applicable to various commodities. There is good reason, therefore, to read into the increased export and import figures a definite stabilisation of the island's activities compared with the potentially disastrous position that was threatening only a few years ago. The total exports to all countries amounted in 1933-34 to $26,791,503, against $24,475,032 in 1932-33; and imports to $16,305,562 ($15,166,868 in 1932-33). The main interest, for pharmacists, centres round cod-liver oil. It would appear that, while the value of the products of the fisheries exceeds that of the previous twelve months, fishing has yielded pride of place as the most important industry of the island. It is significant that the local manufacture of medicinal cod-liver oil is also developing and seems likely to increase as a result of international quota systems and trade restrictions generally.

"C. & D." Retail Price List

THE index for drug prices in August corresponds with that usually current at this time of the year, being 144.6, compared with 141.2 in August 1934. In surgical dressings there is no change from the previous month's figure of 136.2 (136.0 in August 1934). The chief changes are:—

Cost			Selling Price			
d.	per		16 oz. s. d.	4 oz. s. d.	1 oz. s. d.	1 dr. s. d.
84	lb.	Agar (shredded)	—	3 0	0 10	—
90	lb.	Agar pulvis	—	3 2	0 10	—
20	oz.	Menthol	—	—	2 11	0 5
15	oz.	Menthol, synthetic, cones and snuff		unchanged		
30	lb.	Syr. glycerophosphatum flavus	3 9	1 2	0 4	0 1
30	lb.	Ung. gallæ	—	1 2	0 4	—

Business Changes

MR. D. L. RUSHTON, chemist and druggist, has commenced business at 59 Bolton Road, Kearsley, Lancashire.

JOHN BELL & CROYDEN (Savory & Moore, Ltd.) are now operating their wholesale department from 50 Wigmore Street, London, W.1, under the title of W. Martindale, whose business they have acquired. Telephone: Welbeck 5555 (fifteen lines).

MR. G. T. JOHNSON, chemist and druggist, "Westcroft," Tunbridge Wells, has acquired the business of Mr. T. P. Padwick, chemist and druggist, Station Road, Redhill, who has retired after carrying on the pharmacy for thirty-eight years in succession to his father.

"The Beecham" Proprietary Companies

The further development of this important group of companies owning national proprietary medicines by the proposed acquisition of Phosferine (Ashton & Parsons), Ltd., has once more focused the attention and interest of the trade on their activities. A representative of "The Chemist and Druggist" has been favoured with an exclusive interview with Mr. J. Stanley Holmes, F.C.A., who, with Mr. Philip E. Hill and Mr. Louis Nicholas, F.C.A., direct the operations of the "Beecham" group

IN discussing the proposed latest extension of the group's interests, Mr. Stanley Holmes said there was little to add to the statements that had already appeared in the daily press. The proposals were shortly to come before the shareholders and there the matter must stay. The main features of the offer made by the Veno Drug Co., Ltd., of which Mr. Philip Hill is chairman, are as follows:—A conditional agreement has been made with the directors of Phosferine (Ashton & Parsons), Ltd., for the sale of the undertaking, property, and assets, including goodwill, as at April 30 last, for the purchase price of £480,000. The agreement is conditional upon its approval by shareholders and provides for the continuance in office of the existing directors and the continued service of all employees. It is estimated that, with interest, the purchase price, practically the whole of which should be available for distribution, should be sufficient to repay the capital of all shares with dividend except deferred shares, which should, it is estimated, receive 4s. per share, or 80 per cent. of their issued value. The existing agreements with Phosferine Products will be so revised that in consideration of the payment by the purchasers to Phosferine Products of £1,000 the marketing by Phosferine Products of the products of this company or of the new company will be limited to Phosferine health salts and Phosferine tonic wine.



Photo] [Elliott & Fry

MR. PHILIP E. HILL

Referring to their group of companies, Mr. Holmes explained that the controlling interests were held by Beecham's Pills, Ltd., of which Mr. Philip Hill was chairman and he was managing director. Mr. Louis Nicholas was associated with them as a director. Mr. Holmes said "he would like to make one or two points clear to the trade. In the first place, Timothy Whites and Taylors, Ltd., and its subsidiaries, are in no way connected with or controlled by the group. The interest in those cases is solely personal with Mr. Philip Hill. I have an interest as a director in Genatosan, Ltd.," said Mr. Holmes, "but that company is not in the group." Continuing, Mr. Holmes remarked "that from time to time one hears of suggestions that there are connections between our group of companies and some of the leading wholesale houses, such as, for example, Sangers or May Roberts. I am glad of this opportunity to state very definitely that none of our companies nor Mr. Philip Hill, Mr. Nicholas and myself, personally, have the slightest connection with, or interest in, any wholesale house. I want to make that very clear," commented Mr. Holmes—"I think you will agree that in fairness to the wholesalers and to ourselves that fact should be widely known."

Turning to the subject of the businesses of the group's companies, Mr. Holmes pointed out that each concern was a separate entity with its own management and staff. They all work independently, each at their respective headquarters and even to the travellers on the road. At the same time there were frequent conferences held, when all the managers met together to exchange views and opinions. It is, went on Mr. Holmes, a very pleasing feature that, while there is naturally keen rivalry, there is throughout a splendid team spirit.

On the subject of business, Mr. Holmes mentioned that the returns for the companies for the past few months had been satisfactory, showing a general increase in turnover. It was, he pointed out, a source of strength to the group that they owned summer and winter products, with other lines which had a steady sale throughout the year. On the financial side the current value of the shares of the Beecham group was approximately £6,000,000.

Our representative asked if they found the sale of any of their products declined if they dropped advertising on a national scale, to which Mr. Holmes replied "that their practice was to maintain without break their national advertising," and mentioned "that something like a million pounds a year is spent in publicity, in one form or another. Their neon sign at the Veno works was the largest north of the Trent."

Mr. Holmes went on to say that the Beecham's Pill factory at St. Helens was now being completely rebuilt. The original factory was erected in 1887, Queen Victoria's jubilee year, and the new building would be completed this year—the jubilee year of King George. "The new factory would be the most up-to-date in equipment and layout, and," said Mr. Holmes, "I am pleased to be able to tell you that Lord Derby, who resides quite close to St. Helens, has promised to perform the opening ceremony, which will probably be some time in November."

Speaking of his colleagues, Mr. Holmes said Mr. Philip Hill was out of London till the end of this month on a well-earned vacation. "I have had the pleasure of six years of entirely happy association with him and have," said Mr. Holmes, "the greatest regard for his sound judgment and integrity. Mr. Philip Hill's first connection with the chemist's business was in May, 1924, when he became interested in Beecham's Pills. I joined with him in 1929, bringing my Yeast Vite business into the group, and, with Mr. Louis Nicholas, we have worked together in the closest harmony. Mr. Philip Hill is a keen golfer," said Mr. Holmes, "and, although no longer a young man, he plays to a handicap of six. Mrs. Hill this year won the Women's Open Championship at Palm Beach and is very shortly competing in the French Women's Championship."

Returning to the business side of their activities, Mr. Holmes said "that at the moment we have no other extension or acquisition in mind, but, of course, we are always ready to consider anything that may be of interest."

The following is a list of companies in which Mr. Philip Hill, Mr. Stanley Holmes and Mr. Louis Nicholas are interested.

Mr. Philip Ernest Hill is connected with the following firms, as indicated:—

Beecham's Pills, Ltd. (Chairman). Reg. 1928. Capital: £2,250,000. Owns controlling interest in the Veno Drug Co., Ltd., and Prichard & Constance (Manufacturing), Ltd.

Prichard & Constance (Manufacturing), Ltd. (Chairman). Reg. 1926. Capital: £150,000.

R. Hovenden & Sons, Ltd. (Chairman). Reg. 1899. Converted into a public company 1927. Capital: £300,000.

Taylors (Cash Chemists), London, Ltd. (Chairman). Reg. 1928. Capital: £2,000,000. Owns controlling interest in Parkes Chemists, Ltd., Mortons (Cash Chemists), Ltd., Martyns Stores, Ltd., Globe Drug Co., Ltd., and Thornbers (Chemists), Ltd.

Taylors (Cash Chemists), Midland, Ltd. (Chairman). Registered as a private company (Squire & Co. Birmingham, Ltd.), 1917. Name changed in 1929. Capital: £200,000.

Taylors (Cash Chemists) Trust, Ltd. (Chairman). Reg. 1928. Capital: £1,000,000. Owns controlling interest in Taylors Drug Co., Ltd., and R. Hovenden & Sons, Ltd.

Taylors Drug Co., Ltd. (Chairman). Reg. 1888. Capital: £600,000. Owns a controlling interest in Francis Spite & Co., Ltd., Dr. Charles Rooke, Ltd., Robartes (1922), Ltd., Bridgeway Estates, Ltd.

Timothy Whites & Taylors, Ltd. (Chairman). Reg. 1928 as Timothy Whites (1928), Ltd. Name changed in December, 1923, to Timothy Whites, Ltd., and December, 1934, to the present title.

Capital: £3,176,000. Owns a controlling interest in Hopes, Ltd., Whites Property Co., Ltd., Taylors (Cash Chemists) London, Ltd., and Taylors (Cash Chemists) Trust, Ltd.

Veno Drug Co., Ltd. (Chairman). Reg. 1925 as Veno Drug Co. (1925), Ltd. Name changed in 1932.

And also of the following companies:—

Covent Garden Properties Co., Ltd., Second Covent Garden Properties Co., Ltd., Olympia, Ltd., Philip Hill & Partners, Ltd., Scribbans & Co., Ltd., White's Property Co., Ltd., Eagle Star & British Dominions Insurance Co., Ltd.

With him as director of the Veno Drug Co., Ltd., and of Philip Hill & Partners, Ltd., are Mr. Louis Nicholas, F.C.A., and Mr. J. Stanley Holmes, F.C.A.

Mr. Holmes is chairman of the following companies connected with the drug trade:—

Cicfa Co., Ltd., Dinneford & Co., Ltd., Holloway's Pills, Ltd., Iron Jelloid Co., Ltd., Irving's Yeast Vite, Ltd., Yeast Vite (Canada), Ltd., Yeast Vite, Ltd., Yeast Vite (U.S.A.), Inc., Nicocin, Ltd., Products (Beecham), Ltd., and Lintox, Ltd.

Managing director of Beecham's Pills, Ltd.

And a director of:—

A. F. Sherley & Co., Ltd., Beecham's Pills (Canada), Ltd., Beecham's Pills, Inc., Dr. Cassell Medicine Co., Ltd., English Manufacturing Chemists, Ltd., Genatosan, Ltd., Natural Chemicals, Inc., Natural Chemicals Co., Ltd., Phensic, Ltd., Prichard & Constance (Manufacturing), Ltd., Veno Drug Co. Canada, Ltd., and

in addition numerous companies outside the drug trade.

Synonyms "Babel"

In an article entitled "Trypanocidal and Anti-malarial Drugs" which appeared in the "Tropical Diseases Bulletin," the authors, T. A. Henry, D.Sc., and W. H. Gray, M.Sc., comment on the "present complex synonymy" of synthetic drugs and chemicals. "It is a counsel of perfection," they say, "which not even the most enthusiastic of organic chemists would urge, to ask medical men to use the systematic, chemical names by which synthetic drugs are described in purely chemical literature. Chemists themselves find these names impossible for daily laboratory use and almost invariably substitute for them such simple designations as a letter, or a name, with a serial number, e.g., B.117 or Galen 45. New drugs are even submitted for biological tests and clinical trials under these laboratory abbreviations. The new drug is usually patented and registered under a trade-mark name. When the patent lapses the manufacture of the drug may be taken up by other people, each of whom may register for it a new trade-mark name for the protection of his particular brand of the product. Should the drug be admitted to the Pharmacopœia or the British Pharmaceutical Codex, the authorities for these publications will coin a new name, which is non-proprietary and available for general use."

The authors have compiled a list of twenty-one names, coined by official and unofficial efforts in various countries, for the drug known officially in this country and the United States as neoarsphenamine. Mention is made only of drugs referred to in reviews, which have appeared in the last ten years in the "Bulletin."

Quinquevalent (Pentavalent) Arsenic Compounds.—The first arsenical drug used in the treatment of trypanosomiasis was 4-aminophenyl-arsonic acid, generally used in the form of the sodium salt, and for which the following names are iu use:—Sodium aminarsonate (B.P.C.), sodium arsanilate, arsamin, atoxyl, soamin, trypoxyl. An interesting derivative of this substance is 4-phenylglycylamidearsonic acid, for which the systematic name *N*-phenylglycineamide-*p*-arsonic acid (B.P.C.) is also sometimes used. In the form of its sodium salt this product is known as tryparsamide, other names being tryparsone, glyphénarsine, tryponarsyl, trypotan and novatoxyl. Other products derived from the same primary substance are 4-hydroxyethylaminophenylarsonic acid (etharsanol) and 4-hydroxypropylaminophenylarsonic acid (proparsanol), also both used as sodium salts. With a hydroxyl group substituted in position 2 and acetylation of the amino- group, the primary product becomes 2-hydroxy-4-acetylaminophenylarsonic acid, the sodium salt of which is Fourneau 270. In a second series the position of the amino- group in relation to the arsonic acid residue is changed from 4 to 3. The best-known member of this group is 4-hydroxy-3-acetylaminophenylarsonic acid, the diethylamine salt of which is acetylarsan and the quinine salt quiniostovarsol, while the sodium salt is known under the names acetarsol (B.P.C.), acetarsone, kharophen, orarsan, osvarsan, spirocid and stovarsol. A variant, in which the acetyl group, $CH_3.CO$, is replaced by the formyl radical, is 3-formylamino-4-hydroxyphenylarsonic acid, the sodium salt of which has the names formyphénarsine and tréparsol.

An isomeride of stovarsol, in which the relative positions of the acetylamino- and hydroxyl groups have been changed, is 2-hydroxy-5-acetylaminophenylarsonic acid, the sodium salt of which is troposan and the quinine salt quinine-troposan.

Tervalent (Trivalent) Arsenic Compounds.—The best known of these is 3:3′-diamino-4:4′dihydroxyarsenobenzene dihydrochloride, commonly known as salvarsan or 606, but for which the non-proprietary name arsphenamine is in common use in the British Empire and the United States. The drug is now generally used in the form of one of its two principal derivatives. The first of these is the *N*-methylenesulphoxylate, which is neoarsphenamine (B.P.), other names being neoarsenphenolamine, neoarsaminol, neokharsivan, neosalvarsan, novarsan, novarsenobenzene, novarsenobenzol, novarsenobillon, novostab, rhodarsan. The second derivative is the *N* : *N*′-dimethylenebisulphite which is sulpharsphenamine (B.P.) and for which kharsulphan, metarsenobillon, myosalvarsan, sulfarsenol and sulphostab are brand names.

Alkaloids.—The cinchona alkaloids remain the sole antimalarials of this group. Even these familiar substances have added to the nomenclature of drugs as the result of efforts to present them in more advantageous forms. Tebetren is said to be "compounded of derivatives of quinine, acridine, etc., for the treatment and prophylaxis of malaria." Malarcan seems to be a similar product.

Variants and precursors of the mixture known as totaquina are panchina and the chineto No. 1 issued by the Italian State Factory.

Very Proper Names

It is understood that Dickens obtained his proper names, even the most unusual of them, from street directories. What would he have selected from the list of members of the Société Chimique de France? Perhaps nothing at all, since he preferred good old English names like Twist, Micawber, Chuzzlewit, Copperfield and Wegg. There is, to be sure, quite a handful of English names in the list—Lampitt, Morley, Jackson, Rae and Gibson, for example. For the rest, the flavour is undeniably foreign, but by no means exclusively French. Akabori rubs shoulders with Albagnac, and Mackall (U.S.A.) with Macovski (Roumania), Maderni (Switzerland), Madinaveitía (Spain) and Mailland (France). Science, like music, admits no boundaries, and one can almost picture a present-day Dickens (even the real Dickens had his Mantalini) running his finger through the succession Nicolle, Niculescu, Niederhauser, Niemczycki, Nitzberg, Nivière and Noël to find a hero for "A Tale of Twenty-Two Cities," or gleefully pouncing upon the Frutal Works (Laboratorium), Amersfoort (Hollande) as a multilingual "fruit salad" almost too well invented to be a veritable entry in the prosaic membership list of a scientific body. If the fascination of these names lies largely for us in their foreign flavour, even the French members of the Society can relish a few exotic examples such as Vu-Do-Thin (China), Tchelinzeff (Russia), Tsuda Mikio (Japan), Torres y Gonzalez (Spain) and Hönigschmidt (Germany), although Tse-Yei-Tung, apparently Japanese, gives a French enough address: 1 Rue Grandville, Nancy. Indeed, one suspects that the French, who are not notoriously expert linguists, take a special delight in enrolling foreign members into their cultural societies.—Nomen (27/8).

Home-made honey from stingless bees.—Southern Rhodesia is proposing to provide the British housewife with home-made honey . . . . The bees which produce the . . . honey . . . are no bigger than houseflies, they fly very fast, and they are peculiarly fitted for the amenities of civilised society, because they have no sting.—"The Observer."

Some Queer Facts of Science

Abstract of an address to the Chester Rotary Club, by R. Cecil Owen, B.Sc.(Lond.)

ONCE upon a time it seemed as if science and common sense were interchangeable terms. Indeed, someone defined science as organised common sense. This is no longer true. The new physics, for example, contradicts common sense, flouts reason and presents to an amazed world a series of phenomena so incredible as almost to merit the term miraculous. Were they not endorsed by experiment they would be rejected as absurd, unthinkable, impossible. Consider, for example, the queer behaviour of light, the basis of

Einstein's Theory of Relativity.

The velocity of light, as everyone knows, is 186,000 miles per second. It differs from every other velocity in being (*in vacuo*) absolute, not relative. Or we can say that it is always 186,000 miles per second relative to the observer no matter how he moves, whether away from the source of light or towards it, or whether he stands still. Observe how it differs from all other speeds. If an express train travels at sixty miles an hour it is sixty miles away in an hour if we stand still. But if we follow the train in a motor car travelling at thirty miles an hour, its speed relative to us is only 60 − 30, i.e., thirty miles per hour. If we move away from the train at thirty miles an hour its velocity relative to us is 30 + 60, i.e., ninety miles per hour. If the train behaved as light behaves it would be sixty miles away in an hour whether we ran after it, stood still, or ran away from it. This astonishing fact, or theory, is the foundation upon which relativity is built; and we are obliged to accept relativity, fantastic as its postulates are, because it explains so much that otherwise remains mysterious and goes unexplained. The velocity of sound obeys the ordinary rules. Run away from a source of sound and the waves reach us more slowly: we hear the note later. Run towards it and the relative velocity is increased: we hear the note sooner. The anomalous behaviour of light has not itself been explained, though various mathematical formulæ have been written to express it. Now turn from very great magnitudes to very small and consider

Atoms and Electrons.

The old theory of the atom, due to Dalton and well over a century old, is still true as far as it takes us. The new theory does not abolish the old but extends it. Without Dalton's theory there would be no electrons, no protons, no atom as we understand it to-day. The atom is so small that if a grain of salt were magnified to the size of the earth, its electrons would be about as big as footballs. The atom itself is made of charged particles—particles not of matter but of electricity. The protons are positively charged and the electrons negatively. These are not mixed up like a sack of potatoes but arranged in a definite and very open pattern. The electrons circulate round the proton like a planetary system round a central sun. So open is the pattern that the atom, and therefore all matter, consists chiefly of empty space. Thus if we imagine an atom magnified to the dimensions of the Albert Hall an electron would be about as big as a fly! According to physics, therefore, matter is made of non-material particles and consists, overwhelmingly, of empty space. That may fairly be regarded as a very queer fact of science. Now let us return to our common home,

The Earth.

It may seem queer to some of us that its weight (or rather its "mass") is known with considerable accuracy. Expressed in tons its "weight" is 6 followed by twenty-one noughts. About a century and a half ago Cavendish made the first fairly accurate experiment with the object of weighing the earth. (He found its density to be about 4; we now know that it is about 5.) He experimented with a plumb-line and measured its deviation from the true perpendicular by the attraction of a neighbouring mountain. He had to estimate the mass of the mountain and the position of its centre of gravity. These data, combined with the angle of deviation of the plumb-line, enabled him to calculate the earth's mass and density. Recent experiments (notably those of Sir E. V. Boys at Cambridge) of a far more refined character depend upon a totally different method —namely, the attraction exerted by a large lead sphere upon a tiny sphere of gold; but the principle is the same: the mutual attraction of known masses is ascertained and the earth's mass is calculated from its attraction, also known—an exercise in simple proportion. From the earth it is a short logical step to

Sun, Moon and Stars.

How do we know the distance of the furthest stars? The distance is so great that we are unable to measure it in miles or even in millions of miles. The unit we use is the distance travelled by light in one year—at the rate of 186,000 miles a second! (This unit is called a light-year.) A star may be several hundred light-years distant. But how do we measure such prodigious and staggering distances? As in surveying, we use a base line; in this case the longest possible—the diameter of the earth's orbit around the sun, 184 million miles. It amounts to the same thing if we imagine the earth at rest and the star to describe a tiny ellipse annually. We measure the tiny angle subtended at the earth by this ellipse. If a be the angle and A the earth's orbit, the star's distance is $A/\tan a$. The investigation is simple in theory, but in practice it calls for infinite patience and exquisite skill and precision, so small is the angle, amounting perhaps to only a few seconds of arc. An error of a fraction of a second means an inaccuracy of many millions of miles. The distances of the sun and moon are more easily determined. In the case of the moon a very real and ingenious experiment takes advantage of the moon's rotation around the earth: by observation of a fixed star we can tell when the moon is "opposite" first one end of a base line and then the other end; the time interval is measured and a simple calculation yields the moon's distance.

On the whole, the new physics appears to deviate more and more from the common sense of the man in the street and to raise a crop of new problems for every old one solved. We are beginning at last to realise that the human mind is a not an entirely adequate instrument for the satisfactory examination of natural phenomena.

Investigation of Prescribing

THE procedure followed in the investigation of apparently excessive National Health Insurance prescribing was discussed, and the following statement by the Ministry of Health was placed before the London Insurance Committee at a recent meeting: "I am directed by the Minister of Health to say that it is not clear to him what further detailed particulars the Committee desire. I am to explain for the Committee's information that approximately 290 doctors whose prescribing averages are markedly above normal are selected by the pricing department of the Committee each year and submitted to the Minister, with notes drawing attention to special features of their prescribing. From these the Minister selects about 145 doctors whose prescribing appears most likely to warrant investigation, and requests the Committee to prepare reports. . . . In approximately one-third of the 145 cases the details given . . . are sufficient to remove any presumption of extravagance. In the remainder there was *prima-facie* evidence that in some direction the cost of the practitioner's prescribing was in excess of what was reasonable, having regard to what, on average, was found adequate by other practitioners in London, and it was considered desirable to seek an explanation. . . . The report attached to your letter explains fully the manner in which the visit by the regional medical officer and subsequent reports are made, and it is only in cases where, in the Minister's opinion, the evidence discloses reckless and serious extravagance that the case is finally referred to the Panel Committee. The Minister is satisfied that nothing is done which would hinder or prevent a doctor from prescribing all drugs, however costly, which are reasonably necessary for the adequate treatment of his patients."

Trade Report

Where possible scales of prices of chemicals are given for bulk down to small quantities. Prices recorded for crude drugs, essential and fixed oils and coal tar products are for fair sized wholesale quantities. Qualities of chemicals, drugs, essential and fixed oils, etc., vary, and selected brands or grades would be at higher values

28 Essex Street, W.C.2, September 5

PHARMACEUTICAL CHEMICALS continue to be the quiet section in the markets ; in other directions, particularly in a fair number of CRUDE DRUGS, business has been really good. The general tone is rather better than for some time. In pharmaceutical products a sharp advance in GLYCERIN is recorded as from September 1. CRUDE IODINE has been put on the Free List of imports, but we understand this is not, under present circumstances, likely to affect the spot value, which was substantially reduced at the time the duty was operating. SANTONIN, which has advanced once since the formation of the Convention, is very steady and another revision of sales prices would not be surprising. Makers' scales of prices for MERCURIALS, IODIDES and BISMUTH SALTS are all very steady ; any change in prices of these products that may take place in the near future is not likely to be to lower figures.

Crude Drugs

A growing range of products in these markets is attracting increasing business, and, with supplies running low in some instances, values are advancing. The general tone is certainly better than it has been for some months and the aggregate of business is improving. ALOES are firmly held at recent advances. The demand for AGAR is good and the shipment market is very strong ; further advances in prices are recorded. Increased business on spot in CASCARA SAGRADA, and the shipment market is firm, with stocks nearly cleared at the source. New crop Belgian CHAMOMILES are settling down in values. There seems little doubt that there is a world shortage of ERGOT. The spot market has been stripped of supplies ; shipment offers are difficult to obtain, with very high prices mentioned. GUM ACACIA has suddenly firmed up, due to stocks at source being well below normal and not sufficient to meet average requirements up to November. IPECACUANHA is a better market. Japanese MENTHOL shows a further advance ; good spot business and a strong shipment market. The demand for SENNA has been quieter this week, but values are keeping steady. CARNAUBA WAX is firm, with PRIME YELLOW scarce and dear. PIMENTO has advanced and the market closes firm.

Essential Oils

Rather more business is reported this week and it has been well spread over a wide range of products. ANISE (STAR) is again easier forward. BERGAMOT is slightly dearer forward, but business has been modest. Java and Ceylon CITRONELLA remain neglected. Some prices for new crop LAVENDER have been received. Sicilian hand-pressed LEMON has had a poor week and shipment offers tend to be irregular, with some brands offered cheaper. LEMONGRASS remains dull and at low values. ORANGE has been selling in little lots on spot. Japanese PEPPERMINT shows a further advance and business, particularly spot, has been very active and supplies available are getting low. There is also apparent a shortage in the near positions. Japanese shippers are very strong, even for late distant positions. SPEARMINT is firm forward with the report of crop shortage. WORMSEED is cheaper with the removal of the import duty.

Exchange Rates on London

THE following is a list of the chief Continental and other exchange rates at the opening on Thursday morning:—

Centre	Quoted	Par	September 5	Value of the £
Amsterdam ...	Fl. to £	12·107	7·32½	12/1
Berlin	Mks. to £	20·43	12·32	12/0¾
Brussels	Belgas to £	nominal	29·47½	16/10½
Copenhagen ...	Kr. to £	18·259	22·40	24/8
Lisbon	Esc. to £	110	109¾	19/11¾
Madrid	Ptas. to £	25·22½	36¼	28/9
Milan	Lire to £	92·46	60 11/16	13/1¾
Montreal	Dol. to £	4·86⅜	4·97⅛	20/5
New York	Dol. to £	nominal	4·95⅛	20/4¾
Oslo	Kr. to £	18·159	19·90½	21/11
Paris	Fr. to £	124·21	75 1/16	12/1
Prague	Kr. to £	164·25	119½	12/2
Stockholm	Kr. to £	18·159	19·39½	21/4
Warsaw	Zloty to £	43·38	26½	12/0½
Zurich	Fr. to £	25·2115	15·22	12/1

Bank rate 2 per cent.

Pharmaceutical Chemicals, etc.

BUSINESS is still on moderate lines, with the general tone steady. Glycerin shows a sharp advance. Iodides, mercurials and bismuth salts are all at makers' former scales of prices. Santonin is steady and a further advance would not be unexpected.

ACETANILIDE.—Market dull ; quoted unchanged: B.P. crystals and powder, 1s. 5½d. to 1s. 8d. per lb., as to quantity.

AMIDOPYRIN.—Moderate spot inquiry, with some cheap offers: crystals, five cwt., 18s. 0¾d.; two cwt., 18s. 5¼d.; less than two cwt., 18s. 10½d. per lb.; with powder 2½d. per lb. extra.

AMMONIUM BENZOATE.—Average small sales with values steady at about 3s. 4d. to 3s. 6d. per lb., as to quantity.

AMMONIUM ICHTHIOSULPHONATE.—Dealers report fair inquiry ; market steady: one cwt., 1s. 6½d., in 14-lb. tins ; 1s. 8d., in 1-lb. tins ; 1s. 10½d., in 8-oz. tins ; and 2s. 1d. per lb., in 4-oz. tins.

ASPIRIN.—Makers' scale of prices maintained: home trade, ten cwt., 2s. 7d.; five cwt., 2s. 8d.; one cwt., 2s. 8½d.; 28 lb., 2s. 9d.; 14 lb., 2s. 10d.; 7 lb., 3s.; 4 lb., 3s. 2d.; 1 lb., 3s. 4d. per lb. Bulk packing free, net, carriage paid. Contracts: Over twelve months, minimum, one ton ; over six months, less than one ton.

ASPIRIN (TABLETS).—The following are agreed wholesale prices of the British makers: Under 5,000, 3s. per 1,000 ; 5,000, 2s. 11d.; 10,000, 2s. 10d.; 25,000, 2s. 9d.; 50,000, 2s. 8d.; 75,000, 2s. 7d.; 100,000, 2s. 6d.; 250,000, 2s. 5d.; 500,000, 2s. 4d.; 1,000,000, 2s. 3d.; 2,000,000, and over, 2s. 2d. per thousand tablets. A rebate of 1d. per 1,000 is allowed on orders for 10 million tablets taken over a period of 12 months. For small quantities higher prices would be asked by wholesale distributors.

BARBITONE.—Dealers' prices on spot are being maintained ; business quiet: spot, one cwt., 15s. 3¾d.; 56 lb., 15s. 8d.; smaller parcels, up to 16s. per lb.

BENZOIC ACID (B.P.).—Fair business at steady figures: quantities, ex works, 1s. 9½d.; spot parcels, 1s. 10d. to 2s. 3d. per lb., ex store, as to quantity.

BISMUTH SALTS.—The makers' scales of prices for these salts continue very steady. Carbonate, one cwt., 6s.; 28 lb., 6s. 3d.; 8 lb., 6s. 9d.; less than 8 lb., 8s. per lb.

BROMIDES.—Business rather quiet ; quoted at former rates: ammonium, not less than five cwt., 1s. 9d.; one cwt., 1s. 10d.; small quantities, 2s. 5d. per lb.; potassium, B.P., crystals and granular, not less than five cwt., 1s. 6d.; one cwt., 1s. 7d.; 28 lb., 1s. 10d.; smaller quantities, 2s. 2d. per lb.; sodium, B.P., not less than five cwt., 1s. 8d.; one cwt., 1s. 9d.; 28 lb., 2s.; smaller quantities, 2s. 4d. per lb., net, without engagement. Special prices for larger quantities.

BUTYL CHLORAL HYDRATE.—Small inquiry only: spot, 14 lb., 8s.; 7 lb., 8s. 3d.; 1 lb., 8s. 6d. per lb., in 1-lb. bottles.

CAFFEINE.—Continental makers' agreed prices: pure alkaloid, two cwt., 7s. 10d.; one cwt., 8s.; 56 lb., 8s. 2d.; smaller quantities, 8s. 4d. per lb., delivered, 5-lb. tins free, smaller packing extra. Citrate, two cwt., 5s. 5¾d.; one cwt., 5s. 6¾d.; 56 lb., 5s. 7¾d.; smaller quantities, 5s. 8¾d. per lb., delivered. British material: pure, 56 lb., 8s. 4d.; less, 8s. 6d. per lb. Citrate, 56 lb., 5s. 9d.; less, 6s. per lb.

CALCIUM LACTATE.—Market competitive ; fair inquiry: spot, one cwt., 1s. 0¾d.; 56 lb., 1s. 1¼d.; 28 lb., 1s. 2½d.; smaller quantities, up to 1s. 6d. per lb.

CARBOLIC ACID (B.P. CRYSTALS).—The scale of prices for deliveries to June 30, 1936, is as follows: Twenty tons, 7d.; ten tons, 7⅛d.; one ton, 7¼d.; less than one ton, 7½d. per lb., in drums, carriage paid. Wholesale distributors' prices for small parcels would be dearer.

CHLORAL HYDRATE.—Makers' prices control home market: duty-paid crystals, in 14-lb. free containers, five cwt., 3s. 1d.; one cwt., 3s. 2d.; 28 lb., 3s. 3d.; 14 lb., 3s. 4½d. per lb.; 28-lb. jars, one penny per lb. extra.

CITRIC ACID (B.P. CRYSTALS).—Market steady ; rather quieter: British material quoted at 11¾d. per lb., less 5 per cent. discount, nominal and without engagement. Dealers' prices for imported material are competitive.

COCAINE.—The home trade scales of prices for bulk quantities and for small lots are unchanged as reported last week. Export prices vary as to destination.

CREAM OF TARTAR.—Fair demand continues: British material, 99 to 100 per cent., 79s. per cwt., less 2½ per cent. discount. Dealers' prices for foreign material competitive.

CREOSOTE (B.P.).—Business quiet: bulk quantities, in 25-kilo. demijohns, 1s. 9½d. to 1s. 10d. per lb.; smaller parcels, 1s. 10½d. to 2s. 3d. per lb., ex store.

GLYCERIN (B.P.).—Makers notify an advance of £2 10s. per ton, as from September 1. The new scales are as follows:—

Contracts or Spot	Under 1 cwt.	1 cwt. and under 2½ cwt.	2½ cwt. and under 5 cwt.	5 cwt. and under 10 cwt.	10 cwt. and under 20 cwt.	1 ton and under 5 tons
Minimum deliveries	—	1 cwt.	1 cwt.	1 cwt.	2 cwt.	5 cwt.
	s. d.	s. d.	s. d.	s. d.	s. d.	s. d.
Tins, 14 lb.	82 6	78 0	77 0	74 0	73 0	69 0
Tins, 28 lb.	79 6	75 6	74 6	71 6	70 6	66 6
Tins, 56 lb.	76 6	73 0	72 0	69 0	68 0	64 0
Drums, 1 cwt. (charged 20s.)	—	68 6	67 6	64 6	63 6	59 6
Drums, 2½ cwt. (,, 60s.)	—	—	65 6	62 6	61 6	57 6
Drums, 5 cwt. (,, 75s.)	—	—	—	62 0	61 0	57 0
Drums, 10 cwt. (,, 100s.)	—	—	—	—	60 6	56 6

Industrial white glycerin, 1.260 s.g., 2s. per cwt. less than chemically pure. Refined pale straw glycerin, 1.260 s.g., 5s. per cwt. less than chemically pure. Smaller deliveries, ex contracts, than as specified above charged extra.

GUAIACOL (CRYSTALS).—Prices unchanged for Continental material: 28-lb. jars, 10s. 0¼d.; 14-lb. jars, 10s. 2¼d.; 1-lb. bottles, 10s. 8½d. per lb., ex store. Liquid: 28-lb. demijohns, 9s. 6¼d.; 14-lb. demijohns, 9s. 9¼d.; 1-lb. bottles, 10s. 0¼d. per lb., ex warehouse.

HEXAMINE.—Rather more business ; keen prices being quoted: B.P. powder, from 1s. 3¼d. to 1s. 4½d.; free-running crystals, from 1s. 7d. to 1s. 8½d. per lb., carriage paid, for bulk lots. Dealers quoting free-running crystals, two cwt., 1s. 7½d.; one cwt., 1s. 8d.; 14 lb., 1s. 10d.; smaller parcels, up to 2s. per lb., carriage paid.

LACTIC ACID (B.P.).—Average inquiry ; market steady: quantities, in carboys, 1s. 4½d. to 1s. 5d.; in winchesters and bottles, 1s. 6d. to 1s. 9d. per lb., as to quantity.

MERCURIALS.—Reported in better demand. Makers' prices steady. Chloride, B.P., one cwt., 4s. 9d.; smaller parcels, from 4s. 10d. per lb.

METHYL SALICYLATE.—Makers' prices quite steady ; demand slow: spot, ten cwt., 1s. 5d.; five cwt., 1s. 5½d.; one cwt., 1s. 6d.; less than one cwt., 1s. 7d.; small quantities, in bottles, up to 2s. per lb.

METHYL SULPHONAL.—Dealers report some small demand at steady prices: two cwt., 19s. 3¾d.; one cwt., 19s. 9¼d.; 56 lb., 20s. 2¾d.; small parcels, 20s. 8d. per lb.

PARALDEHYDE.—Modest demand ; market keen: 1 w-quart, 1s. 9d.; 6 w-quarts, 1s. 7½d.; 12 w-quarts, 1s. 5½d.; 36 w-quarts, 1s. 4½d. per lb., carriage paid on minimum 6 w-quarts ; one demijohn, 1s. 2d. per lb., carriage paid.

PHENACETIN.—Remains at cheap prices, with not much doing: crystals or powder, bulk quantities, 2s. 7d. to 2s. 9d.; smaller parcels, 2s. 9½d. to 3s. per lb.

PHENAZONE.—Dealers' prices for imported material are unchanged ; occasional cheaper sellers: crystals, five cwt., 8s. 9¾d.; two cwt., 9s. 0½d.; and less, about 9s. 3d. per lb.; with powder 2½d. per lb. extra.

PIPERAZINE.—Continental material quoted as follows: in 8-oz. bottles, 11 lb., 53s. 4½d.; 2 lb., 54s. 9½d.; less, 56s. 3d. per lb., ex warehouse. In 1-oz. bottles, 11 lb., 61s. 10d.; 2 lb., 63s. 3d.; less, 64s. 9d. per lb., ex warehouse.

POTASSIUM PERMANGANATE (B.P.).—Dealers doing fair business ; market steady: spot, five cwt., 9¾d.; one cwt., 10d. per lb., in drums ; druggists' parcels, from 10½d. to 1s. per lb., as to quantity.

POTASSIUM SULPHOGUAIACOLATE.—Market neglected: spot, 6s. 3d. to 6s. 4½d. per lb., as to quantity.

QUININE SALTS.—Convention scales of prices continue steady ; business about normal: sulphate, 2s. 1d.; bisulphate, 2s. 1d.; ethyl carbonate, 2s. 8¾d.; salicylate, 2s. 9½d.; hydrochlor., 2s. 7½d.; bihydrochloride, 2s. 10¾d.; hydrobromide, 2s. 7½d.; bihydrobromide, 2s. 10¾d.; valerianate, 3s. 7d.; hypophosphite, 3s. 10¾d.; alkaloid, 2s. 11d. per oz., carriage paid on bulk quantities ; 100-oz. tins, free ; smaller packing extra.

RESORCIN.—British material quoted unchanged: crystals, one cwt., 4s. 11d.; 56 lb., 5s.; 28 lb., 5s. 1d.; 14 lb., 5s. 3d.; 7 lb., 5s. 6d.; less than 7 lb., up to 6s. per lb.

SALICYLIC ACID (B.P.).—Makers' prices steady ; business quiet: five cwt., 1s. 7d.; one cwt., 1s. 7½d.; 28 lb., 1s. 8d.; 14 lb., 1s. 9d.; 7 lb., 1s. 11d.; 4 lb., 2s. per lb.

SALOL.—Very little inquiry: spot, crystals, two cwt., 3s. 6d.; one cwt., 3s. 6½d.; 56 lb., 3s. 7¼d.; smaller parcels, up to 4s. per lb.; powder, 2d. per lb. extra.

SANTONIN.—Convention prices are maintained and outside parcels are gradually being liquidated: not less than 50 kilos., £35 12s. 6d.; not less than 25 kilos., £36 1s.; not less than 10 kilos., £36 9s.; not less than 3 kilos., £36 17s.; not less than 1 kilo., £38 13s. 6d.; less than 1 kilo., £39 13s. 6d. Special prices are in operation for export to all markets.

SODIUM BENZOATE (B.P.).—Continues in moderate request ; market competitive: one cwt., 1s. 7d.; smaller parcels, 1s. 8d. to 1s. 10d. per lb., as to quantity.

SODIUM DIETHYLBARBITURATE.—A little more inquiry ; quoted at former rates: spot, one cwt., 15s. 9d.; 28 lb., 16s.; 14 lb., 16s. 3d.; 7 lb., 16s. 6d.; smaller parcels, up to 17s. per lb.

SODIUM SALICYLATE (B.P.).—Makers' and dealers' prices holding fairly steady ; business limited: home trade, crystals or powder, five cwt., 1s. 8½d.; one cwt., 1s. 9d.; 28 lb., 2s.; 14 lb., 2s. 2d.; 7 lb., 2s. 3d.; 1 lb., 2s. 6d. per lb.

SULPHONAL.—Dealers' spot prices are quite steady ; business a little better: crystals or powder, two cwt., 15s. 5¼d.; one cwt., 15s. 10¾d.; 56 lb., 16s. 1d.; smaller parcels, up to 16s. 7½d. per lb.

TARTARIC ACID (B.P. CRYSTALS).—Business rather quieter ; market steady: British makers quote at 1s. 0½d. per lb., less 5 per cent. discount. Dealers offering foreign material at competitive prices.

THEOBROMINE.—Continental material: pure, two cwt., 7s. 10d.; one cwt., 8s.; 56 lb., 8s. 2d.; smaller quantities, 8s. 4d. per lb. Sodium salicylate, two cwt., 6s. 3¼d.; one cwt., 6s. 4½d.; 56 lb., 6s. 5¼d.; smaller quantities, 6s. 6¼d. per lb., delivered, 5-lb. tins free, smaller packages extra.

THYMOL.—A little more inquiry ; market steady: synthetic, fine white, one cwt., 5s. 9d.; 56 lb., 5s. 11¼d.; 28 lb., 6s. 3½d.; 14 lb., 7s. per lb.; ex ajowan seed, one cwt., 8s. 3d.; 56 lb., 8s. 6d.; 28 lb., 9s.; 14 lb., 10s. per lb.

VANILLIN.—Business continues on fair lines, with Convention prices quite steady: ex clove oil or guaiacol, five cwt., 13s. 3d.; one cwt., 13s. 6d.; 56 lb., 13s. 9d.; less, 14s. per lb.

Crude Drugs, etc.

AGAR.—The shipment market continues firm, with most offers limited to five-bale lots ; prices tend to advance. Spot, firm and unchanged: spot, Kobe No. 1, 3s.; No. 2, 2s. 10½d.; Yokohama No. 1, 2s. 10½d. per lb.; shipment, Kobe No. 1, 2s. 9d.; No. 2, 2s. 6d.; Yokohama No. 1, 2s. 6½d. per lb., c.i.f.

ALOES.—With supplies still very restricted on spot and for shipment the market continues firm ; business quiet: Cape, spot, nominal, nothing offering ; shipment, boxes, 46s.; cases, 50s. per cwt., c.i.f. Curaçao, spot, 92s. 6d. to 105s.; shipment, 86s. to 87s. 6d. per cwt., c.i.f.

ANTIMONY.—Chinese crude is quoted at £27 10s., c.i.f. English regulus is unchanged at £74 to £75.

BALSAMS.—*Tolu* is maintained at the recent advance on spot ; market on the quiet side. *Tolu*, 1s. 5d.; *Canada*, 2s. 10d.; *Peru*, 5s. 3d. per lb., spot.

BELLADONNA.—Dealers are doing small business: root, 57s. 6d. per cwt., spot.

BUCHU.—The spot market is fully maintained at former figures ; average bale business on spot with stocks low: good green rounds, 1s. 3½d. Ovals are very short and held for 1s. 1d. per lb.

CAMPHOR.—Moderate spot business, mostly in tablets ; values steady: Japanese, spot, tablets, 2s. 4d.; powder, 2s. 1d.; slabs, 2s. 0½d. per lb., ex store. English refined is still unchanged: flowers, one cwt., 3s. 1d.; 28 lb., 3s. 2d.; small lots, 3s. 3d. per lb. Transparent tablets, 4 oz., 8 oz. and 16 oz., 3s. 4d.; 1 oz. and 2 oz., 3s. 5d.; ½ oz., ¼ oz. and ¼ oz., 3s. 6d. per lb.; special prices for contracts for quantities.

CANTHARIDES.—Not much business: Russian, about 6s. 9d.; Chinese, about 2s. 4½d. per lb., as to quantity, spot.

CASCARA SAGRADA.—There has been quite a good business doing on spot at full prices. The shipment market continues firm, with very limited quantities available from 36s. per cwt., c.i.f., in car-load lots. The source reports stocks difficult to find and peeling has finished for the season. Spot, 1934 peel, 40s. to 42s. 6d.; 1933 peel, 47s. 6d.; 1932 peel, 52s. 6d. per cwt.

CHAMOMILES.—Prices for new crop are beginning to settle down. First pickings, 140s.; second pickings, 130s. per cwt., landed. There are plenty of offers of yellows and browns at lower prices, but the above figures are required for good flowers.

CLOVES.—Business rather slow ; market steady: Zanzibar, spot, 7½d.; shipment, August-September, 6⅞d. per lb., c.i.f. Madagascar, in bond, 6d.; shipment, August-September, 5⅞d. per lb., c.i.f.

The landings of Zanzibar in London during the week ended August 31 were 218, and the deliveries 218, leaving a stock of 2,766. From January 1 to date the landings of Zanzibar have been 2,546 and the deliveries 2,874. Landings of Madagascar for the week ended August 31 were *nil*, and the deliveries 3, leaving a stock of 1,708. From January 1 to date landings of Madagascar have been 3,001 and the deliveries 1,537 packages.

COCOA BUTTER.—Market steady: Prime English, 8¾d. to 9¼d. per lb. Foreign, 8¼d. to 8¾d. per lb., as to quantity.

COCONUT (DESICCATED).—Market is rather unsteady: spot, fine, 22s. 3d.; medium, 22s. 3d. per cwt.; shipment, September, 20s. 9d. per cwt., c.i.f.

COD-LIVER OIL.—Bergen reports the shipment market steady, with rather more inquiry being received. Finest Lofoten steam-refined non-freezing medicinal oil, 91s. per barrel, c.i.f. London ; spot, in small lots, 134s. per barrel, ex store, duty paid. Newfoundland, non-freezing medicinal oil, 130s. per barrel, ex store. British non-freezing medicinal oil is now quoted at 110s. to 112s. 6d. per barrel, c.i.f. London, duty free, while quotations from another home source are at higher figures.

COLCHICUM.—Dealers are offering spot root in small lots at about 40s. per cwt. Business quiet.

DAMIANA LEAVES.—Inquiry on spot is modest, with holders asking about 1s. per lb. for small lots.

DERRIS ROOT.—This market is more or less neglected, with spot and forward prices unchanged.

ERGOT.—The position here has become very acute and it is apparent there is a world shortage. On spot there does not seem to be a single bag of Spanish or Portuguese on offer ; one lot of the latter was sold for export this week. A parcel of Russian due this week of about a ton is mentioned at 2s. 10½d. to 3s., landed. Letters from Spain mention a price of 4s. for anything that might become available and a bid at very close up to that figure for a quantity has so far not been accepted. There has been active inquiry on this market from Germany and U.S.A., but the market was already stripped of supplies.

GENTIAN.—Dealers are offering fair quantities of French at about 36s. and Italian at about 34s. 6d. per cwt.

GINGER.—Market has been rather dull ; values steady: West African, spot, 33s. 6d.; for arrival, 32s. per cwt., c.i.f. Jamaican, spot, bold in barrels, 92s. 6d. to 100s.; small grinding, 67s. 6d. per cwt., in bags, ex store.

GUM ACACIA.—Report received in London this week states stocks at the source totalled 4,645 tons. Of this there is between 600 and 700 tons of inferior quality and gum damaged by rain. The total of f.a.q. is therefore 3,900 tons, which is not likely to be sufficient to meet the demands from now till the end of November next. A definite shortage is therefore very probable and strong and advancing markets are anticipated. Spot, Kordofan cleaned sorts, 47s. 6d.; bleached No. 1, 87s. 6d.; extra, 95s. per cwt.; shipment, Kordofan cleaned sorts, 45s. per cwt., c.i.f. Market closing firm and tending to advance further.

HENBANE.—Dealers are offering small parcels on spot at about 80s. per cwt. Business quiet.

HONEY.—This market is generally unchanged, with a moderate inquiry being received: Jamaican, pale, 37s. 6d.; dark manufacturing, 27s. 6d. per cwt. Californian, smooth white, 47s. 6d., spot ; shipment, 37s. 6d. per cwt., c.i.f.

HYDRASTIS.—Values are being well held here but business is slow. Spot, 8s. 6d.; shipment, 8s. 3d. per lb., c.i.f.

IPECACUANHA.—The recent improved tone is being maintained ; fair spot sales: Matto Grosso, 4s. 10½d. to 5s. per cwt.; Minas, 4s. 3d. to 4s. 6d. per cwt., as to quantity, spot.

LAVENDER FLOWERS.—Prices coming to hand for new crop blue flowers are firm at about 230s. per cwt., landed, for good quality.

LIQUORICE ROOT.—Natural root is freely offering on spot at about £12 per ton, with business slow. Decorticated, 35s. to 45s. per cwt.

LYCOPODIUM.—The spot value is fully steady at 4s. per kilo.; supplies limited.

MENTHOL.—There has again been a good home and export demand, with the market firm at the further advance and the outlook is generally strong. Spot supplies are now restricted, at least in offerings, with business in K/S brands done up to 12s. 6d. per lb. In bond is quoted at 11s. 6d.; shipment, business done, September-October, 11s. 4½d.; October-December, 11s. 3d. per lb., c.i.f. Japanese shippers quoting: September-October, 11s. 6d. and October-December at 11s. 3d. per lb., c.i.f.

MERCURY.—The Spanish-Italian group report their shipment price continues steady, with business on a fair scale. Quoted at 56 dollars per bottle, f.o.b. Continent ; spot, in small lots, £11 6s. 6d. per bottle, ex store.

OPIUM.—Market is steady at former values: spot, 1s. 5d. to 1s. 5½d. per unit, landed and duty paid.

PEPPER.—Market remains slow. Lampong, in bond, 2⅞d.; shipment, August-October, 2⅝d.; October-December, 2 11/16d, c.i.f. Tellicherry, spot, 4⅝d.; shipment, September-October, 4 3/8 6d., c.i.f. Aleppy, spot, 4½d.; shipment, September-October, 4 2/8 6d., c.i.f. White Muntok, in bond, 4¼d.; shipment, September-October, 4½d. per lb., c.i.f.

PIMENTO.—Values have again improved and the market is very steady. Spot, 3½d. per lb.; shipment, September-October, 33s. per cwt., c.i.f.

POPPY HEADS.—New monster heads available at 70s. per 1,000, to arrive.

RHUBARB.—A parcel of Canton landed this week of good fracture but ugly shapes is quoted at about 2s. 4½d. per lb., landed and duty paid.

RUBBER.—At the slight decline the market is steadier ; business on small scale. Standard ribbed smoked sheet, spot, 5⅝d.; September, 5½d.; October, 5½d.; October-December, 5 9/16d.; January-March, 5 11/16d.; April-June, 5 13/16d. per lb.

SAFFRON.—Market is steady, business fair: spot, B.P. 1898, prime, 39s.; extra, 37s.; super, 36s. per lb., and less for bulk quantities.

SARSAPARILLA.—Market quiet, quoted unchanged: spot, Jamaican grey, 1s. 4d. to 1s. 4½d.; native, mixed colours, 11d. to 1s. per lb., as to quantity, spot.

SEEDS.—ANISE.—Spot, duty paid, Spanish, 68s.; Bulgarian, 31s. 6d. CANARY.—Market remains firm: Mazagan, spot, 25s., and Tangier, 27s. 6d., both duty paid. Spanish, 32s. 6d. to 37s. 6d., duty paid. CARAWAY.—Dutch, spot, now 34s., duty paid ; 28s. 6d., f.o.b. Holland. CORIANDER.—Market rising. Morocco, new crop, for shipment, not offered. Spot quoted at 16s. 6d., duty paid. CUMIN.—Unchanged. Morocco, spot, 50s., duty paid, and 46s. 6d., in bond. FENUGREEK is dearer. Morocco, spot, 15s., duty paid. New crop, for shipment, 12s. 6d., c.i.f. MUSTARD.—English, 22s. 6d. to 33s. per cwt., according to quality.

SENEGA.—Not much doing here, but values are keeping steady, with shipment at 1s. 4½d., c.i.f., and some spot holders shading this price.

SENNA.—Inquiry has been on a small scale this week, but generally spot values are about unchanged. The quality of the recent arrivals of new crop Tinnevelly leaves tends to become lower, the leaves being rather small and not such good green in colour as the earlier shipments. There is a marked difference in prices between prime quality green leaves and ordinary f.a.q. For instance, it is possible to purchase off-colour No. 3 leaves on spot at 2¼d. to 2½d., whereas for prime green No. 3's 3d. to 3¼d. per lb. is wanted. This margin in values is also noticeable in Nos. 1 and 2 grade leaves.

SHELLAC.—Values are level on the week: spot, standard TN orange, 50s. to 55s.; fine orange, 85s. to 145s.; pure button, 80s. to 95s. per cwt., spot. For delivery, TN, October, 50s.; December, 50s. 6d. For arrival, TN, September-October, 54s. per cwt., c.i.f.

SIRAMONIUM—New crop green leaves shortly arriving listed at about 50s per cwt. for small parcels.

TONQUIN BEANS.—Spot offers of Para fair frosted continue from 2s. 10½d. to 3s. per lb. Business slow.

TRAGACANTH.—There has been a very fair inquiry for the second and third grade whites, with spot values from £18 to £22 per cwt. Textile grades meet with moderate business at 75s. to £5 per cwt.

VALERIAN ROOT.—Dealers are now offering spot supplies at the lower figure of 75s. per cwt., in small lots.

WAX.—BEES': Market continues steady. Abyssinian, spot, 107s. 6d.; shipment, 97s., c.i.f. Benguella, in bond, 110s.; shipment, 95s., c.i.f. Conakry, spot, 110s.; shipment, 95s. 6d., c.i.f. Dar-es-Salaam, spot, 110s.; shipment, 103s., c.i.f. CARNAUBA.—Market continues firm. Fatty grey, spot, 170s.; shipment, November-December, 165s., c.i.f. Chalky grey, spot, 170s.; shipment, November-December, 165s. Primeira, yellow, spot, 215s.; shipment, November-December, 205s. In good demand, with supplies very scarce.

Essential Oils, etc.

ORDERS exempting cananga, cassia, chenopodium, spike and mandarin from import duty were issued this week. Editorial comment on p. 304. Business has been on quite a good scale this week and has been well spread over the whole range of products. There has been very substantial business in Japanese peppermint oil again this week, and, with spot supplies running low, values have again advanced and the market in all positions is firm.

ALMOND.—Values steady ; business quiet: English-made, cwt. lots, 2s. 6d.; smaller parcels, up to 2s. 8d. per lb.; foreign, cwt. lots, 2s. 4d.; smaller parcels, 2s. 7d. per lb. French, bitter, 8s. 9d. per lb.

ANISE (STAR).—Market remains dull and shipment is again easier: spot, leads, 2s. 2d.; tins, 2s. 1d.; drums, 2s. per lb., ex store ; shipment, leads, 1s. 10d.; tins, 1s. 7½d.; drums, 1s. 7d. per lb., c.i.f.

BAY.—Slow market ; values steady: 49 to 50 per cent., 5s. 1½d. to 5s. 4½d. per lb., as to quantity.

BERGAMOT.—The shipment market is being maintained on the firmer tone noted last week and prices for good brands are now coming through from 6s. to 6s. 3d., c.i.f. Rather more interest on spot, with fair quantities sold at 5s. 6d. per lb. Although firm the shipment market so far remains dull.

BOIS DE ROSE.—Market is unchanged and quiet. Brazilian, spot, 5s. 9d.; shipment, 5s. 6d. per lb., c.i.f. Cayenne, 10s. 3d., c.i.f.

CAJUPUT.—Spot values show an easier tendency: B.P., 1s. 11d. to 2s. 1d. per lb., as to quantity.

CANANGA.—Rather more inquiry, with spot steady at about 13s. 9d. to 14s. per lb.; shipment in the region of 10s. 3d., c.i.f. The removal of the import duty has not affected values of the very limited spot stocks.

CARAWAY.—Some shipment offers are slightly cheaper. To arrive, Dutch rectified, 9s. 6d.; crude, 9s., landed and duty paid.

CASSIA.—The shipment market is nominal at 5s. 4½d. per lb., with practically nothing available. The import duty has been lifted. There seems to be little coming forward ; shipment, about 3s. 10½d., c.i.f.

CEDARWOOD.—Moderate inquiry; values steady. American and African oil, spot, 1s. 1¾d. to 1s. 2d., in drums; smaller packings, up to 1s. 4½d. per lb. for small parcels.

CINNAMON LEAF.—Fair inquiry; market steady: Ceylon oil, drums, 2s. 6d.; smaller packings, up to 2s. 8d.; shipment, fully 2s. 2¼d. per lb., c.i.f.

CITRONELLA.—This market remains sluggish and at low values: Ceylon, spot, drums, 1s. 1d.; smaller parcels, 1s. 3d. to 1s. 4d.; shipment, drums, 10¼d. per lb., c.i.f. Java, spot, drums, 1s. 2d.; smaller parcels, 1s. 3½d. to 1s. 5d.; shipment, drums, 1s. to 1s. 0½d. per lb., c.i.f.

CLOVE.—Market is steady, with a little more doing: Madagascar, spot, drums, 3s. 2d.; smaller packings, up to 3s. 6d. per lb.; shipment, 2s. 6d. per lb., c.i.f.

EUCALYPTUS.—Inquiry on a fair scale: Australian, 70 to 75 per cent., 11d. to 1s.; 80 to 85 per cent., 1s. to 1s. 1d. per lb., landed; higher prices for small lots or spot. Spanish, 70 to 75 per cent., 1s. 2d. per lb., ex store.

GERANIUM.—Market has been very quiet, but values are holding steady: Bourbon, spot, 22s.; shipment, 20s., c.i.f. Algerian, spot, 21s. 6d.; shipment, 19s. 9d. per lb., c.i.f.

GINGERGRASS.—Remains rather quiet; spot holders quoting about 5s. 4½d. to 5s. 6d.; shipment, 4s. 4½d. per lb., c.i.f.

HO (SHIU).—Business moving on average lines. Spot quoted from 1s. 9d. to 2s. 1d. per lb., as to quantity and quality.

JUNIPER BERRY.—A little more spot inquiry, with good quality oil at 3s. 3d. and the finest up to 4s. 6d. per lb.

LAVENDER.—Most first-hand importers state they are still without definite offers of new crop oil, but from one reliable source the following firm quotations are forming the basis of business: 50 to 52 per cent., 32s. 6d.; 40 to 42 per cent., 23s. 6d.; 38 to 40 per cent., 22s.; 36 to 38 per cent., 20s. 6d.; 30 to 32 per cent., 18s. 6d. per lb., landed. Lavindin, finest, 14s. 9d.; standard quality, 13s. per lb. It is anticipated that prices from some other sources will be on a higher level than these figures.

LEMON.—Except for ordinary small spot business this market is quiet, the lack of interest in the shipment market being noticeable. Sicilian hand-pressed on spot ranges from 5s. 6d. to 5s. 8d. per lb.; shipment seems to be rather irregular, with some sources quoting easier from about 5s. 9d. upwards, while in other quarters quotations are made slightly firmer. The lower figures, however, do not attract any important business. Californian in fair sale, with large drums on spot at 3s. 0½d. and small drums at 3s. 1d. per lb.

LEMONGRASS.—The shipment market remains dull and quoted at about 2s., c.i.f., for a quantity. Limited spot stocks at about 2s. 4½d., but there is little call at the moment.

LIME.—Spot business in West Indian distilled has been quite good, with the price about 24s. per lb. The shipment market is also lighter and steady.

NEROLI.—This article was not included in the list of exemptions issued this week. It is understood that the Imports Advisory Committee decided to take no action.

NUTMEG.—Fair small parcel business continues; market steady. American and English, 5s. 1½d. to 5s. 4d. per lb., as to quantity.

ORANGE.—Business has been restricted mostly to small domestic requirements. French Guinea, spot, drums, 3s. to 3s. 1d.; smaller packings, up to 3s. 6d.; shipment, 2s. 9d., c.i.f., for quantities, with nothing doing. Sicilian sweet, spot, 10s. 6d.; shipment, 10s. per lb., c.i.f. Californian, quiet demand: spot, one case, 2s. 6½d.; two or more cases, 2s. 4d.; drums, 2s. 3d. per lb.

PALMAROSA.—Market remains rather unsteady and quiet. Spot, about 6s. 6d.; shipment, about 6s. per lb., c.i.f.

PATCHOULI.—No change to report here; business slow. Singapore oil, 10s. 6d. per lb. Seychelles, for shipment, offering at about 3s. 4½d. per lb., c.i.f.

PEPPERMINT.—There has been an active demand this week, particularly for spot oil, of which there is a serious shortage. This position, and that there is comparatively little to arrive for near positions, is the strength of the market. On spot business has been done at steadily increasing figures up to 5s. 3d., with some holders asking higher rates. Business has been done for August-September at 5s. 8d.; September-October at 4s. 7½d.; and October-December at 5s. 6d., c.i.f. It is now doubtful if much more can be booked at these figures. Japanese shippers quote: September-October, 5s. 10½d.; October-December, 4s. 10d.; and January-March at 5s. 10d. per lb., c.i.f. The American natural oil in drums tends to be a little steadier, with good brands quoted from 2 dollars 5 cents to 2 dollars 20 cents per lb., c.i.f.

PETITGRAIN.—This article has not been exempted from liability to duty under the Import Duties Act. It is understood that the Advisory Committee have considered the application and decided to take no action. Spot, 4s. 1d. to 4s. 3d.; shipment, about 3s. 6d. per lb., c.i.f.

ROSEMARY.—Moderate business reported. Spot, first quality, 1s. 1d.; second quality, 1s. 9d. per lb., c.i.f.

SANDALWOOD.—Genuine East Indian Mysore, 19s. per lb., in one-case lots, on spot; isolated cheaper offers noted. English-made East Indian, 22s. 6d. to 25s. per lb., as to quantity. English-made West Indian, cwt. lots, 6s. 9d.; 56 lb., 6s. 10½d.; 14 lb., 7s. per lb. Australian, case lots, 15s. 3d. per lb.

SASSAFRAS.—Business on a limited scale. Spot, natural, 4s. to 4s. 3d. Artificial at lower prices.

SPEARMINT.—Market is firm at recent advance, due to crop shortage reports. Spot, about 9s. per lb.; shipment, up to 8s. 3d. per lb., c.i.f.

SPIKE.—Some interest is being taken in shipment offers of new crop. The removal of the duty has cheapened the landed cost to about 4s. 6d. for a good quality oil.

VETIVERT.—Very little inquiry; market steady. Spot, in the region of 40s. and shipment about 35s. per lb., c.i.f.

WORMSEED.—With the removal of duty spot values have cheapened, with holders quoting about 8s. 7½d. to 8s. 9d.; shipment, about 8s. 3d. per lb., c.i.f.

The following are current prices for synthetics, etc.—ACETOPHENONE, 6s. to 6s. 4d. per lb.; AMYL ACETATE, pure, 122s. 6d. per cwt.; technical, 107s. 6d.; AMYL SALICYLATE, 2s. 2d. per lb. for cwt. lots up to 2s. 6d.; AUBEPINE, ex para creosole, 8s. to 8s. 6d. per lb.; BENZALDEHYDE, f.f.c., 2s. 2d. to 2s. 4d. per lb.; BENZYL ACETATE, 1s. 3½d. to 1s. 8d. per lb.; BENZYL ALCOHOL, cwt. lots, 1s. 11d. up to 2s. 3d. per lb. for small lots; BROMSTYROL, 100 per cent., 9s. 6d. to 11s. per lb.; BUTYRIC ACID, 3s. 3d. to 3s. 6d. per lb.; CITRAL, chemically pure, steady at 7s. 9d. to 8s. 3d. per lb.; COUMARIN, 7s. 3d. to 8s. per lb.; ETHYL PHTHALATE is steady at 1s. 4d. to 1s. 9d. per lb.; EUGENOL, 7s. 6d. to 8s. per lb.; GERANIOL, ex palmarosa, 15s. to 17s. per lb.; HELIOTROPINE, 100 per cent. crystals, 6s. 9d. per lb., as to quantity; ISO EUGENOL, 9s. 6d. to 10s. per lb. METHYL ANTHRANILATE, 6s. 6d. to 6s. 9d. per lb. MIRBANE is quoted at 7d. to 8d. per lb.; MUSK, KETONE, 19s.; AMBRETTE, 18s.; XYLOL, 4s. 6d. per lb.; TERPINEOL, 1s. 4d. for ton lots up to 1s. 9d. per lb. for small parcels.

Commercial Notes

U.S.A. SALICYLATES PRODUCTION.—The quantities produced during 1933 and 1934 were as follows:—

	1933	1934
	Lb.	Lb.
Salicylic acid, U.S.P.	2,119,727	2,438,000
Acetylsalicylic acid	3,153,796	3,791,000
Methyl salicylate	1,115,154	1,269,000
Sodium salicylate	361,275	457,000

ITALIAN CITRIC ACID EXPORTS.—In the first four months of 1935 dropped to 5,988 metric quintals from 7,052 quintals in the corresponding 1934 period. Amounts destined to various markets were as follows:—

	1934	1935		1934	1935
	Quintals			Quintals	
Austria	70	51	Switzerland ...	307	284
Belgium	320	281	Russia	100	74
France	255	375	Japan	230	30
Germany	388	434	British India ...	422	51
Great Britain ...	1,746	1,839	Algeria	10	5
Greece	278	262	Argentina	950	22
Netherlands ...	75	524	Brazil	45	77
Spain	288	415	Other countries ...	1,568	1,264

U.S. DRUG EXPORTS.—Exports of American GINSENG for the first four months of 1935 are considerably in advance over corresponding period of each year since 1931. Comparative figures are given below in pounds weight and pounds sterling (approximate):—

	1931	1932	1933	1934	1935
Weight ...	71,000	36,000	38,000	54,000	64,000
Value ...	£85,800	£36,400	£15,000	£26,800	£53,200

A similar increase is shown in the exports of CRUDE DRUGS (including cascara, leptandoa, hydrastis, elm, wild cherry, witch hazel, lobelia, sassafras, senega, serpentaria, etc.) for the same period, figures being:—

	1931	1932	1933	1934	1935
Weigbt ...	1,297,000	967,000	937,000	1,058,000	1,304,000
Value ...	£37,200	£21,600	£19,400	£27,800	£34,200

Correspondence

Letters should be written on one side of the paper only. Correspondents may adopt an assumed name, but must in all cases furnish their real name and address to the Editor

Presentation to Mr. James Grier, M.Sc., Ph.C.

SIR,—May we, through your columns, appeal to all past-students of the Pharmacy Department of Manchester University to subscribe to the testimonial to Mr. Grier on his retirement from his post as Senior Lecturer in Pharmacy, after thirty-nine years' service? During this period Mr. Grier has been largely responsible for the growth of the Department to its present proportions, and has spared no effort to further the success of his students. While it is hoped that Mr. Grier will continue, for a long time to come, to give pharmacy in general the benefit of his wide knowledge and experience, it is felt that the present is an opportune time for past-students to show their appreciation in a practical way. The committee of the Manchester University Pharmacy Students' Association is issuing this appeal to such past-students as can be traced, in the hope that something substantial in the way of a cheque, in addition to a memento, may be presented to Mr. Grier at the annual reunion, which will probably take place in November. It is anticipated that there will be an exceptionally large gathering on this special occasion. It is hoped that all past-students will be associated with this testimonial, and to this end the committee will welcome any subscription, large or small. As many past-students as can be traced have been circularised, and it is hoped that anyone wishing to be associated with this testimonial will send their subscription, before September 18, to Miss I. Roberts, Pharmacy Department, the University, or Mr. E. Barker, 318 Stockport Road, Levenshulme, Manchester. Will any past-students who have not received the circular, and wish to be associated with this testimonial, accept the apology of the committee for the omission and send their subscription to either of the above?

Yours faithfully,
EDGAR BARKER, Hon. Secretary;
Manchester. IVY ROBERTS, Hon. Treasurer.

"De Commonsensibus"

SIR,—I have been reading with interest and amusement your reports of the discussion on the rules in respect of the latest Poisons Schedules; with admiration also of the mental agility of the secretary to the Board, who would no doubt grace the ranks of pharmacy but for the fact that as a wise man he prefers to remain outside. It seems a pity this gentleman cannot put some "commonsensibus" into the members constituting the Board itself. For after all, what does it come to? Pages of discussion as to containers, labels and packing; bottles with ribs or markings distinguishable by touch; arguments as to the number of ribs; the precise significance of the words "Not to be taken," etc. As a student in all these matters for some sixty years, I incline to the view that the official attitude is much where it was in, say, 1850. It was no doubt a good idea to authorise no sale of arsenic unless the poison were mixed with colouring, although if a person wants to poison himself with arsenic he is not likely to care what the colour is. Sales of poisonous weed-killers are always conducted with such rites and ceremonies as may be prescribed by law. But there is nothing to prevent the buyer, having once made his purchase, dividing the same with a friend. A man gets up in the night and takes a dose of his liniment (in a bottle distinguishable by touch) in mistake for his mixture. The result is a serious discussion in the coroner's court whether a bottle of different shape with a few more ribs would not have averted the calamity. Medicine bottles are not seldom brought back to be refilled with the outside wrapping intact but for a piece torn off at the top so as to free the cork. The patient, putting the bottle to his lips, takes a drink—enough to please himself without in the least caring what the prescribed dose is. The attitude of the Legislature is invariably in the direction of locking the stable door after the horse is stolen. The suggestion will then be made for an extra lock or a few more hinges, while the unfortunate party in charge comes in for considerable abuse. Looking at all these Rules, it is clear that chemists will have to make an intensive study of the same and be extremely careful to dot all the "i's" and cross all the "t's" to avoid possible fine and imprisonment. The danger of improper use will remain much as hitherto.—Yours, etc., J. P. A. (16/8).

The Dispensing Department

SIR,—At the present time there is a disposition on the part of some chemists to advocate the adoption of the open or visible dispensary as a means of advertising this department. I think, however, there are many objections to this course. One of the most serious is interruption by customers, which by distracting the attention of the dispenser may lead to mistakes. Again, certain customers are very sharp, and it is almost impossible, in a visible dispensary, to prevent them observing the dispensing of poisons. With a timid customer this is more likely to lead to fear than to trust. The pioneers of the screened dispensary department had, I think, a greater sense of values than some are apt to give them credit for. Take away the professional or private aspect of dispensing, and you will remove a distinct business asset. The best advertisement is dispensing well done with best-quality drugs and supplied in best-quality containers. I have had wide experience in high-class dispensing businesses, and in no case did we have a visible dispensary.—Yours, etc.,

SCREENED (3/9).

Trade in Toilet Goods

SIR,—"A Retired Chemist" (*C. & D.*, August 24, p. 244) made a success of his venture into the high-class perfumery trade, and no doubt it could be done again in some districts; but it is not the sort of enterprise which would be successful in every business. The small man is especially handicapped when he entertains the idea of expanding in this way; a sum of £75 represents in many instances the best part of a month's takings and therefore cannot be laid out in one line, in addition to the expense incurred for alteration of fixtures and the wages of an assistant until such times as the new line shows sufficient profit to pay for itself. Where the capital is at command the outlay becomes a speculative investment, with possibly a fair chance of success; but in the majority of cases the small man will prefer to build up a connection gradually to avoid loss on stock. At the same time there are chemists whose returns remain small because they never display anything but the smallest-sized packs and the lowest-priced goods. A judicious mixture with the better and more expensive lines will enable one to feel the market and pave the way to higher sales. During my many years in business I tried as far as possible to meet both demands by sectionalising displays, thus showing the public that I could supply both classes, and I found it worked successfully. If the demand is there it will be ascertained, and the stock will grow with it.—Faithfully yours,

ALSO RETIRED (2/9).

Multiplicity of Stock

SIR,—"Amalgam" (*C. & D.*, August 17, p. 237) draws attention to the growing number of items, particularly toilet lines, which have to be stocked to-day. Take compacts and toilet powders. There are dozens of makers of these, each producing a range which differs in colour and often in perfume as well. If those of only one manufacturer are stocked the number of items may run to nearly 100. The remedy is not so easy as was that in the photographic trade, and I do not think that many manufacturers would be prepared to sacrifice any of their goods for the sake of simplicity. The problem is not quite the same with infants' food as with toilets. Provided the former are returned within the time limit or not more than a few days after, credit will usually be allowed; if a little care is exercised in seeing that the older stock is always kept to the front and the newer placed behind it, the time-limit question need not give much trouble. It is the fickleness of many mothers or doctors in suddenly changing the foods that often results in stocks being left on hand.—Yours truly,

MANUFACTURER (18/8).

Hours of Business

SIR,—I agree with "Rural Chemist" (*C. & D.*, August 17, p. 237) that Sunday duty is overdone. Having experienced many years of this duty, I can confirm his statement that most of the articles called for are trifling and the really urgent cases are rare. Although the duty was intended to be for cases of necessity, it has developed into a recognised system; indeed, many Sunday customers expect to purchase goods which in the ordinary way they would get at some other kind of shop and have just run out of, purely for want of forethought. As retail chemists we are more or less resigned to being made use of in this way. In more civilised states, where the doctor prescribes and the pharmacist dispenses, there is a regular rota system for Sunday and night work, the hardship being in the case of pharmacists who own the only pharmacy in a small town or village. I note that "Rural Chemist" says he lives near his shop, and that people who want anything call at his house, in which case he is probably no better off than the man who lives on the premises—in fact not so well off, as he has to make the journey to the shop. If "Rural Chemist" were to be in an industrial district with all the insurance prescriptions coming in late, he would find it impossible to close at 7.30 p.m., or to finish his books and orders before closing time.—Yours truly,

TOWN DWELLER (20/8).

Dispensing Notes

A Coloration and a Precipitate

SIR,—I should be indebted for your remarks on the following combination, in which there is a colour change on adding the syrup to a solution of the salt, and after introducing the liquid extract of liquorice a precipitate takes place.

Syr. hypophos. co.	...	...	...	℥ij.
Mist. bromidorum, N.F.	...	...	...	ad ℥viij.

Yours, etc.,

P. S. H. (1/8).

[There are several points to consider in this case. First, a mixture of fourteen substances, mostly chemical substances, in water, might produce some reaction given the necessary time. Secondly, it is well known that ext. glycyrrh. liq. deposits in an acid mixture and is thrown out by numerous salts. The colour change is not particularly noticeable, as the only precipitate is a white gelatinous one—apart from the liquid extract. Borax (in the mist. bromidorum) precipitates soluble hypophosphites, which dissolve when heated and reprecipitate when cold. There appears to be no remedy, and as the liquid extract of liquorice precipitate covers the white one from the salt, there is only the necessity of a "Shake the bottle" label.]

Subscribers' Symposium

For interchange of opinion among "C. & D." readers and brief notes on business and practical topics.

Specks in Mixture

Possibly the black specks mentioned by "B." (2/8) (*C. & D.*, August 10, p. 191) are due to the pot. brom., in weak saccharine solution, producing a mould.—*A. T. R.* (9/8).

A Labelling Suggestion

I have not noticed that the words "Not to be swallowed" should be used, when required, on gargles, mouth washes, etc. It seems to me to suit the occasion.—*A. Hornby*, Silverhill, St. Leonards-on-Sea.

Courses in Shopkeeping

In your editorial article "Courses in Shopkeeping" (*C. & D.*, August 31, p. 277) you rightly suggest that the time is ripe for some system of teaching "selling." Such instruction might profitably be extended to wholesale selling. Not long ago a sundries traveller, endeavouring to sell me some hair brushes which I emphatically stated I did not require, stressed the "selling point" that the cardboard box had a "lift-off lid."—*L. H. H.* (2/9).

Appreciations

In my recent position of manager of a northern house I have been accustomed to read your journal each week, and have always found it of service.—*H. B.* (30/7).

The *C. & D.* is to be congratulated on its new series of special articles "The Pharmaceutical Salesman." The article on infant and invalid foods (*C. & D.*, July 27, p. 121) is an education, and by close study and application of the knowledge gained many chemists will not only increase the confidence of their customers but also increase their own profits.—*The Thistle* (31/7).

Legal Queries

W. T. (20/7).—The use of the title "Slimming Mixture" does not render the article liable to medicine-stamp duty.

W. S. (1/8).—If a person who makes out an order for goods initials the order instead of signing it in full, is the order binding on him? [It has been held in the courts that initials constitute a valid signature.]

W. R. (2/7).—It is usual for the copy of the lease that is signed by the tenant to be stamped with the full stamp duty payable, and for the other copy, which is called the "counterpart," to be impressed with the nominal stamp duty of 5s.

M. B. C. (17/7).—The regulations to which you refer are doubtless the Poisons List and Rules prepared by the Poisons Board in accordance with the Pharmacy and Poisons Act, 1933. Carbolic tooth-powder is an exempted preparation and there will be no restriction in regard to its sale.

W. D. C. (15/6).—The case appears to turn upon whether the article was purchased for medicinal purposes. If it was you could argue that you are within the law, though it has been held in the Courts that medicines which are not urgent cannot be sold after closing time. If the chemical was for domestic purposes, e.g., for a cake, then it cannot be sold after closing hours.

T. J. S. (18/6).—It would seem that you have agreed under your lease to allow water from the roof of your neighbour's premises to run through the pipe on your own premises, and that even if you have not undertaken to keep this pipe in repair you are practically forced to do so for your own protection. The position is that if the pipe leaks you cannot call upon anyone else to undertake the repair work unless they have expressly agreed to do so, and that only by doing the work yourself can you prevent your property being damaged by water. As there may be special laws in the Irish Free State and if you wish to know your exact legal position your best course is to consult a solicitor, who will be able in inspect your lease and advise you.

C. P. (8/7).—CORN PLASTERS: (1) Felt adhesive (unmedicated), to be placed around the corn to relieve the pressure of the boot; these are not dutiable, because they are mechanical appliances. (2) Medicated plasters or silks (e.g., salicylic) which act on the corn and effect its removal; these are dutiable, subject to exemption if the composition or formula is declared. Your preparation therefore comes under corn plasters in Part 2 of the above quotation. Exemption if the composition or formula is declared is allowable under the terms on which the Board of Customs and Excise permit the sale of "known, admitted and approved" remedies. The declaration of the composition of the preparation must be made on the label, and the package must, in addition, carry the disclaimer that no proprietary rights are claimed for the preparation. The preparation must also be issued under a brand name. The exemption is extended only to chemists or those who have served a regular indentured apprenticeship with a chemist. In the case of manufacturers the Board of Customs and Excise require that companies, who have technically no right to sell "known, admitted and approved" remedies unstamped, shall have their laboratory controlled by a fully qualified chemist or a man who has served a regular apprenticeship. From this extended explanation you will see that the product must (1) be stamped, or (2) disclose the formula and carry a disclaimer note. (3) It cannot be sold unstamped by unqualified persons.

Miscellaneous Inquiries

When samples are sent particulars should be supplied to us as to their origin, what they are used for and how. We do not undertake to analyse and report upon proprietary articles nor to publish supposed formulas for them.

W. D. (17/78).—POWDER IN SHAMPOOS.—The idea of using citric or tartaric acid is to counteract the lustre-dulling effect of the alkaline shampoo. Citric acid has fallen out of favour for this purpose, because of its hygroscopic properties. It has been displaced by adipic acid or the hexamethylenetetramine ester of adipic acid. A suitable formula contains alum 60 parts, tartaric acid 30 parts, adipic acid 10 parts ; another contains tartaric acid 50 parts, adipic acid 40 parts, hexamethylenetetramine 9 parts. The hexamethylenetetramine is combined first with the adipic acid to form the ester and then the tartaric acid and perfume are added.

E. G. C. (13/6).—CURE FOR NAIL-BITING.—This appears to be simply concentrated infusion of quassia.

P. E. K. (26/88).—PRESCRIPTION READING PROBLEM.—The prescription you send reads as follows:—

	Mandelic acid	...	...	...	gm. iij.
	Sod. carb.	...	...	...	gm. 1·6
	Lemon	...	...	...	q.s.
	Aq.	...	...	ad	℥j.
Mitte	℥xvj.	...	...	Cpt.	℥j. q.i.d.
	Ammon. chlor.	...	...	...	gm. j.
Ft. caps.		...	...	Cpt.	ij. q.i.d.

E. M. (31/58).—STICKING SOLUTION FOR LEATHER.—This appears to be a simple solution of rubber in a crude petrol, with perhaps a little kerosene or naphtha.

C. H. M. (20/88).—The following are the formulas for which you ask:—

Vapor Rub

Ol. camph. essent.	...	...	1·0
Ol. cajuputi	...	...	0·2
Menthol	...	...	0·1
Ol. eucalypti	...	...	0·1
Paraf. mol. alb.	...	...	10·0

Pine Inhalant

I

Ol. terebinth.	...	...	℥ij.
Ol. pini abietis	...	...	℥ss.
Ol. eucalypt. cit.	...	...	ʒj.
Menthol syn.	...	...	ʒj.
Æther. meth. (0·735)	...	...	♏xx.
Ol. cajuput.	...	...	♏ij.
Alcohol isopropylicum	...	ad	℥vj.

II

Creosoti	...	...	℥iij.
Ol. eucalypti, Ol. cajuputi, Terebeni	...	aa.	℥vj.
Æther. meth.	...	...	℥iij.
Menthol	...	...	℥iv.
Ol. gaulther	...	...	℥j.

F. H. S. (30/88).—SUGAR FOR LOZENGES.—So far as the manufacture of lozenges and pastilles is concerned, it is immaterial whether the botanical source is sugar-cane or sugar-beet. For the manufacture of certain syrups it is essential that sugar from cane should be used. Although extracted from different plants, such as the sugar-cane and the sugar-beet, commercial sugar consists essentially of sucrose or saccharose, admixed with very small quantities of other sugars, such as glucose and fructose in cane sugar, and, in addition to these, traces of raffinose in beet sugar, together with traces of organic and mineral impurities. In the purified condition cane and beet sugars possess identical sweetening powers, and are indistinguishable by chemical analysis.

R. B. (France) (30/88).—ESTIMATION OF ROTENONE.—The Zeisel method for estimating the methyl and methoxyl radicals is cited in most works of practical organic chemistry, but Jones's method for the determination of rotenone in derris root shows superior results. This consists in extracting the derris root, in No. 20 powder, with carbon tetrachloride in a Soxhlet apparatus. The liquid is concentrated and set aside for the rotenone to form needle-shaped crystals, the crystals being collected in a tared Gooch crucible, dried and weighed. If the liquor be evaporated to dryness and weighed, that weight added to that of the crystals gives the total extract.

R. B. (30/88).—BUTTERMILK.—The composition of buttermilk is approximately: Protein 3, fat 0.5, sugar 4.5, water 92.

L. F. (France).—HENNA SHAMPOOS.—The formulas for which you ask are as follows:—

Liquid Shampoo

Henna leaves in coarse powder	...	...	10 gm.
Boiling water	...	...	100 c.c.
Soft soap	...	...	300 gm.
Alcohol (95 per cent.)	...	...	200 c.c.
Oil of lavender	...	...	20 c.c.
Oakmoss resin	...	...	1 gm.
Water	...	...	to 1,000 c.c.

Shampoo Powder

I

Castile soap, in powder	...	...	33
Coconut oil soap, in powder	...	...	7
Sulphonated lorol	...	...	20
Sodium sesquicarbonate	...	...	33
Egyptian henna powder	...	...	7
Dianthodor 1592 (Naef)	...	...	0·5

II

Powdered soap	...	...	9 oz.
Exsiccated sodium carbonate	...	...	3 oz.
Borax	...	...	3 oz.
Henna powder	...	...	1½ oz.
Perfume	...	...	as required

S. M. C. (30/88).—WATERPROOFING FISHING LINES.—The following is the formula of a preparation used for waterproofing fishing lines:—

Boiled oil	...	...	2 parts
Gold size	...	...	1 part

Apply with a piece of flannel, expose to the air until dry. After using the line two or three times, it should have another coat.

T. H. H. (19/88).—BOOKS ON CONFECTIONERY.—Considerable information on the manufacture of medicinal lozenges and pastilles is given in "Pharmaceutical Formulas," Vol. I (*C. & D.* Office, 15s.). A publication dealing with the manufacture of confectionery in general is "Skuse's Complete Confectioner" (W. J. Bush, 21s.).

W. O. H. (15/88).—GLYCERIN, LEMON AND HONEY.—The following preparation is generally supplied:—

Succ. limonis, Glycerini, Mell. depur.	...	aa.	p. æq.

Dose: A teaspoonful to be sipped occasionally.

Other preparations with a more definite medicinal character contain tr. camph. co., acetum scillæ or vin. ipecac.

Retrospect of Fifty Years Ago

Reprinted from
"The Chemist and Druggist," September 15, 1885

International Pharmaceutical Congress

A large section of our space is occupied this month with the history of the proceedings of the sixth International Pharmaceutical Congress, which held its sessions at Brussels from August 31 to September 5 inclusive. The event was one of singular interest . . . Royalty patronised it ; a chief Minister of State presided over it ; a great City Council fêted it ; foreign governments appointed special delegates to its sessions ; and its proceedings were reported all over Europe. To an English observer all this was, as we have said, interesting and curious ; perhaps more interesting and curious to us than to Continental pharmacists, who regard their profession from a different standpoint to that which we occupy. The pleasure and advantage of social intercourse, the new ideas suggested and imbibed, and the incidental benefits generally picked up on such an occasion are of the highest value. . . . It is a point for consideration whether the Continental or the English view of pharmacy is the true one.

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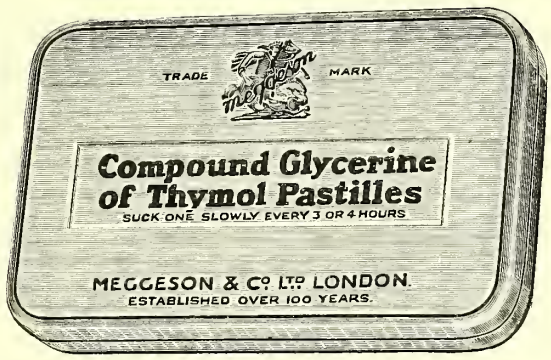
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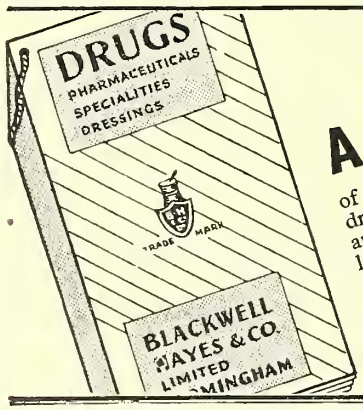
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Commercial and B.P. Qualities also Powdered

Glauber's Salt
Commercial and B.P. Qualities and Desiccated

Zinc Sulphate
Commercial and B.P. Qualities

Zinc Chloride
Fused, Granulated and Liquid

WILLIAM BLYTHE & CO., LTD.
Holland Bank Chemical Works
CHURCH
LANCASHIRE

Hyposulphite of Soda *Pea Crystals*

Lead Arsenate
Paste and Powder

Precipitated Sulphur

WEED KILLER
A list of our general Technical Chemicals sent on application

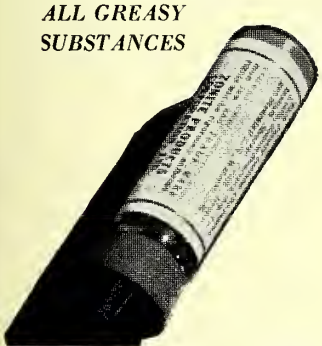
medically approved and

IN INCREASING DEMAND



CHLORAMINE PESSARIES

FREE FROM ALL GREASY SUBSTANCES



A small, very attractive counter display card is sent free with every order.

Manufactured by the makers of 'Argyrol.'

Zonite brand Pessaries are receiving increasing recognition and recommendation from physicians in all parts of the country as a really safe and dependable contraceptive. Their use in the treatment of many inflamed or infected conditions of the vagina is also being widely advocated.

Employing the powerful antiseptic action of Chloramine in a non-toxic and non-caustic form, 'Zonite' Pessaries have the potent effectiveness of that germicide, yet in no way irritate or harm the delicate vaginal tissues and adnexa. Their non-greasy base makes them unusually clean and convenient to use.

An extensive propaganda and sampling scheme, initially directed to 8,000 doctors and 14,000 nurses and mid-wives is now in hand. Prescription of 'Zonite' Pessaries will rapidly result from this direct appeal to the medical professions. ***Offered to the Chemist at 16 to the dozen for initial orders,*** these reliable contraceptive pessaries are a profitable and quick-selling line. Counter display stand sent free with all orders.

For full particulars and standard trade terms write distributors:— Fassett and Johnson, Limited, 86, Clerkenwell Road, London, E.C.1.

URALYSOL

THYMINIC ACID - HEXAMETHYLENE - TETRAMINE - LYSIDIN



Treatment

★ OF THE RHEUMATIC DIATHESIS

• IN GRANULES •

CONTINENTAL LABORATORIES LTD.
30, MARSHAM ST. LONDON. S.W.I.

Taxolabs, Sowest, London. Victoria 2041.

Innerclean 2/6 22/6 DOZ.

Stillman's Freckle Cream 2/6 20/- DOZ.

Both these lines are now being advertised, and chemists are requested to meet the demand which we are creating

✦ ✦ ✦

Obtainable from all wholesalers or direct from the sole agents :

Brooks & Warburton, Ltd.

232-240 VAUXHALL BRIDGE RD.
LONDON, S.W.1

FOUR GOOD LINES

TAMAR INDIEN GRILLON	Known for fifty years as an excellent fruit laxative. It has been constantly advertised, and advertisements are now appearing in selected high-class media.
Dr. Jaillet's PEPTO-FER	Sold throughout the world as a tonic for convalescents and sufferers from all kinds of anæmia.
RIGOLLOT'S MUSTARD LEAVES	Have long been universally famous. They are mustard plasters of exceptional strength and quality.
RIGOLLOT'S MUSTARD (for veterinary purposes)	Used in the French Army, and approved by the veterinary schools of England, France, Belgium, Switzerland and Italy.

All enquiries (except for Pepto-Fer) to :—
GUYOT-GUENIN & SON (Dept. C.D.)
59 Southwark Bridge Road, London, S.E.1.

For Pepto-Fer, please write direct to :—
Dept. C.D., DARRASSE FRÈRES,
13 rue Pavée, Paris IV, France.

FERBER CAPSULES

AMMONIATED QUININE CAPSULES, 60m.
Packed in Decorated Tins, in Attractive Show Outers.
No. 378. 10/6 per doz. tins.

BLENOSAN CAPSULES
Santal Oil and Oleo Resin Kava Kava Comp.
No. 169. (Minimum Retail 4/6.) 36/– per doz. tins.

CARBON TETRACHLORIDE CAPSULES
Specially purified, free from Sulphur.

CHILBLAIN CAPSULES
Calcium Lactate, 5 grs.
In boxes of 24. 7/– per doz.

CINNAMON & QUININE CAPSULES
Packed in Decorated Tins, in Attractive Show Outers.
No. 379. 10/6 per doz. tins.

COD-LIVER OIL CAPSULES
No. 214. 24 × 15 m. 8/– per doz.

COD-LIVER OIL AND CALCIUM PHOSPHATE
No. 217a 24 × 10 m. 6/6 per doz.

DOG CAPSULES

Aperient	Antibilious	Alterative
Diarrhœa	Cough	Condition
Mange	Epilepsy and Chorea	Distemper
Worm	Tonic	Rheumatic

For Medium and Large Dogs, 8/6 per doz. tubes.
For Puppies and Fancy Dogs, 6/6 per doz. tubes.

ERGOT PREPARED
Dry filled Capsules, N.F.
No. 258 24 × 5 gr. 12/– per doz.

FERBER CAPSULE No. 600
Containing Blaud's equal to 2 pills. Arsenical Solution 2 minims. Ext. Nucis Vom. ¼ grain. Phenolphthalein ½ grain.
Packed 100 in decorated tins. 31/– per doz. tins.
Minimum Retail 5/– per tin.

HALIBUT LIVER OIL CAPSULES
Packed in Decorated Tins, in Attractive Show Outers.
No. 290a. 24 × 5 m. 12/8 per doz. tins.

HALIBUT LIVER OIL AND CALCIUM PHOSPHATE
Each containing Halibut Liver Oil 2½ minims. Calcium Phosphate 2 Grains.
Equivalent in Vitamin A to one tablespoonful of the finest Cod Liver Oil, with adequate Vitamin D.
For the treatment of Chilblains and circulatory deficiency.
No. 292. 24 in box. 12 8 per doz. boxes.

OPHTHALMIC CAPSULES

Hydrarg. Ox. Flav. 1%	Atropin 1%
,, ,, ,, 2%	Argyrol 1%
Boric Acid 10%	Protargol 1%

In boxes of 3, 12/6 per doz. boxes.
In boxes of 6, 18/6 per doz. boxes.

SANTAL OIL CAPSULES
No. 393. Tins, each 24 × 10 drops. 18/6 per doz.
No. 392. Tins, each 24 × 10 minims. 22/– per doz.

SPECIAL CAPSULES FOR LADIES
Packed in Decorated Tins, in Attractive Show Outers.
No. 109. Apiol, Aloes and Iron. 9/– per doz. tins.
Etc., Etc.

ROBERT FERBER LTD.
Carlton Works, Asylum Road
LONDON, S.E.15

"GET 'EX-LAX' FROM YOUR CHEMIST"



It pays
to display
EX-LAX BRAND
CHOCOLATE LAXATIVE

EX-LAX LTD. SLOUGH. BUCKS.

PETROLEUM JELLIES
WHITE, LEMON, YELLOW, AMBER, RED, GREEN.

WHITE & COLOURED OILS
YELLOW, GREEN, RED FOR BRILLIANTINE, etc.

LIQUID PARAFFIN
COLOURLESS, TASTELESS, ODOURLESS.
ALL SPECIFIC GRAVITIES.

B.P. AND TECHNICAL QUALITIES

Wholesale Trade only.

STERNS LTD.
16 FINSBURY SQ., LONDON, E.C.2, ENGLAND
Telephone: NATIONAL 7644 (7 lines)
Telegrams: "CENTUMVIR, PHONES, LONDON."



SAPO MOLLIS
VIRID B.P.

FOR PHARMACY & TOILET USE
We are in a specially favourable position to quote. Prices and Samples sent on application. Please state quantity required. Wholesale only.

BLEASDALE Ltd. MANUFACTURING CHEMISTS **YORK**

URICURE TABLETS
Greatest of all Rheumatic Remedies
1/3 SIZE 7/ DOZ 3/- SIZE 17/6 5/- SIZE 25/-
THE ACTON PILL & TABLET Co LTD ASH VALE, SURREY

TABLETS, PILLS, LOZENGES
We are **manufacturers** for the Wholesale Trade.
If you buy large or regular quantities, please write for quotations.
BROOK, PARKER & Co. Ltd., BRADFORD

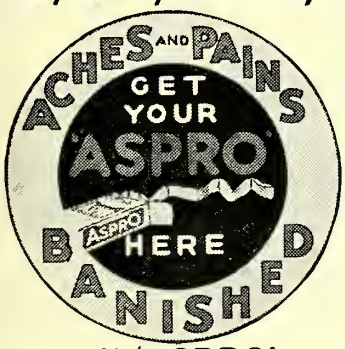
Antiphlogistine
Brand Dressing
HUMAN & VETERINARY
MADE IN ENGLAND
Write for Special Quantity Terms
The Denver Chemical Mfg. Co., Carlisle Road, London, N.W.9

THIS DISPLAY SELLS 'ASPRO'



& BRINGS CUSTOMERS INTO YOUR SHOP

The window display illustrated above definitely sells 'ASPRO'. It connects up with the largest advertising campaign of its kind in the world. When you display it, you get the benefit of 'ASPRO' advertising just as though you paid for the advertisements yourself—the non-displayer loses customers and loses profit. The present change of the weather conditions is causing a great demand for 'ASPRO'. We suggest, therefore, that if you have an 'ASPRO' display you show it. If you have not one—then write us to-day, and we will send the above set by return of post. Do not forget, either, the 'ASPRO' service of Chemists' envelopes and bags. They are good business pullers—they save you money. Let us assure you here that our sales activities are being vigorously pushed. House-to-house broadsheeting is in operation, backed by heavy national advertising. We advertise 'ASPRO' continuously. If you keep on displaying 'ASPRO' advertising material 'ASPRO' customers will keep on coming to you.



AN 'ASPRO' WINDOW STICKER

'ASPRO' consists of the purest Acetylsalicylic acid that has ever been known to Medical Science, and its claims are based on its superiority.

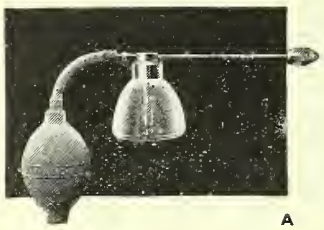
Made in England by

ASPRO LTD., SLOUGH, BUCKS.

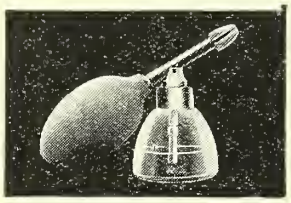
Phone : Slough 608

No proprietary right is claimed in the method of manufacture or the formula.

ASPRO REGISTERED TRADE MARK



A



B

● Every home needs one or more atomisers. DeVilbiss has been prescribed by the medical profession for over 45 years. Today the DeVilbiss range includes atomisers of every required size and type, and features a number of recent refinements. DeVilbiss Atomisers are reasonably priced and carry handsome profits. Conspicuously displayed, they stimulate the sale of medicinal and antiseptic solutions—and sell themselves.

(A) No. 15. This well-known nose and throat atomiser sprays oil or aqueous solutions with equal ease. Detachable nasal guard now of improved type.

(B) No. 45. (Nebuliser)—For oils only. Produces a large volume of extra dry vapour for deep inhalation.

(C) No. 20. (Atlas)—A compact and dependable nasal atomiser producing a medium spray from either oil or water solutions.

(D) No. 25. (Atlas)—A nose and throat atomiser of high quality for oil or water solutions.

C



DeVilbiss
ATOMISERS

AEROGRAPH CO. LTD., 43 Holborn Viaduct, London, E.C.1

D



CVS-85

6D NEW PACKING ...NOW READY 6D
FENNINGS' LUNG HEALERS

Packed in 5/- size, containing ten 6d. boxes. The 5/- size yields you a profit of 25%.

This new 6d. size has been put on the market owing to constant request. We confidently expect a heavy demand for this new 6d. packing.
The 5/- boxes are in an attractive design for counter display.

Prices are as follows:

5/- size (10—6d. boxes) wholesale **45/-** per doz.
3/- size - - - wholesale **28/-** per doz.
1/3 size - - - wholesale **11/8** per doz.

On the P.A.T.A. List.

These packings are being advertised in the London National and Provincial Press.

Proprietors: The Trustees of Alfred Fennings (Deceased), W. J. Bailey, F. B. Pelly and H. Hamer.

Orders should be sent to the Wholesale Agents:—
MESSRS. JOHN SANGER & SONS, 258, Euston Road, London, N.W.1.

ALL CHEMISTS SHOULD STOCK

ABDINE

THE GOLD MEDAL HEALTH DRINK. Quick Seller. Big Profits. Over 60 years' Reputation. "Abdine" is obtainable from the Wholesale Houses. Attractive Display Material constantly available.
DUNCAN McGLASHAN LTD., ABDINE WORKS, WESTFIELD RD., EDINBURGH

'DOMCO' (Regd.) **MALT & COD LIVER OIL AND MALT & HALIBUT LIVER OIL**

are exceptionally palatable preparations
carrying a good profit margin

Both these quality products are supplied in 1, 2, & 7 lb. jars individually wrapped, or in 1 lb. containers for N.H.I. purposes.

Quotations from—
D. MAWDSLEY & CO. 4 & 6 Riga Street, Shudehill, MANCHESTER

·Iglodine·

THE SAFE AND PURE ANTISEPTIC,

And its Kindred Preparations are Dependable, Quick-Selling, and Profitable to the Chemist.

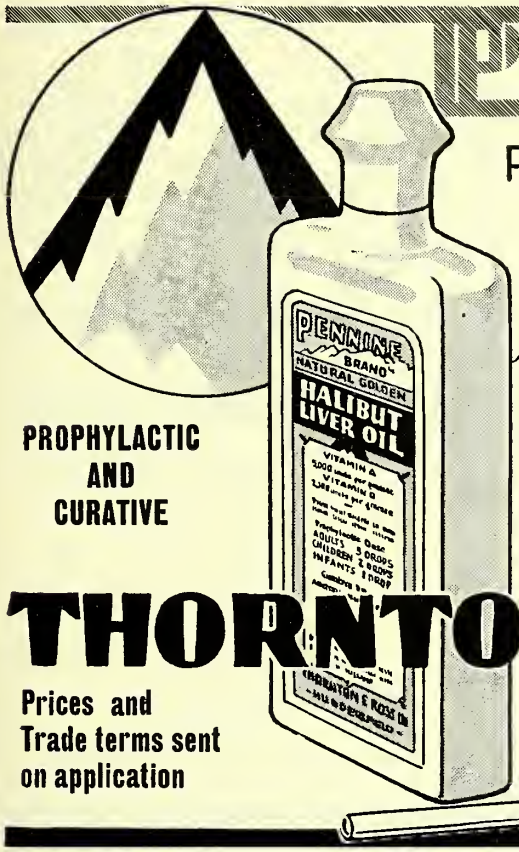
THEY SATISFY BUYERS AND BRING REPEAT ORDERS!

IGLODINE, the Ideal Home Healer, is Highly Recommended by the Medical Faculty, and Retails at **10½d., 1/6** and **3/-** per Bottle. **IGLODINE Specialities include—EMBROCATION, TOILET SOAP, OINTMENT, CREAM, THROAT TABLETS, SUPPOSITORIES, SHAVING STICK, PASTILLES, NASAL DOUCHE, SALICYLATED: Also FIRST-AID OUTFITS.**

P.A.T.A. Photo-Litho Showcards. Window Display Scheme Particulars and Prices from

THE IGLODINE Co., Ltd., NEWCASTLE-ON-TYNE.

PENNINE BRAND



Purest Grade, Natural Golden
Halibut **LIVER OIL**

The more intelligent public is now fully aware of the high vitamin content of Halibut Liver Oil. Pennine brand is a highly purified extraction with a steadily increasing demand due largely to personal recommendation.

It offers a generous profit to the chemist.

Vitamin A Content : 5,000 units per gramme
Vitamin D Content : 2,500 „ „ „

Supplied in two sizes, packed in attractive cartons. Showcards available.

PROPHYLACTIC AND CURATIVE

THORNTON *and* ROSS, LTD.

MANUFACTURING CHEMISTS
MILNSBRIDGE
HUDDERSFIELD

Prices and Trade terms sent on application

TR4

THE FINEST OINTMENTS ARE

SPUN

(Regd. Trade Mark)

—OF COURSE!

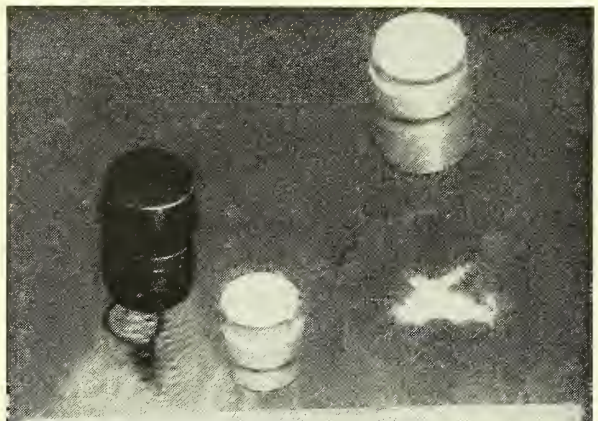
TOILET CREAMS : COLD CREAMS : VANISHING CREAMS

ALL OFFICIAL AND OTHER OINTMENTS OF EVERY DESCRIPTION PACKED OR IN BULK

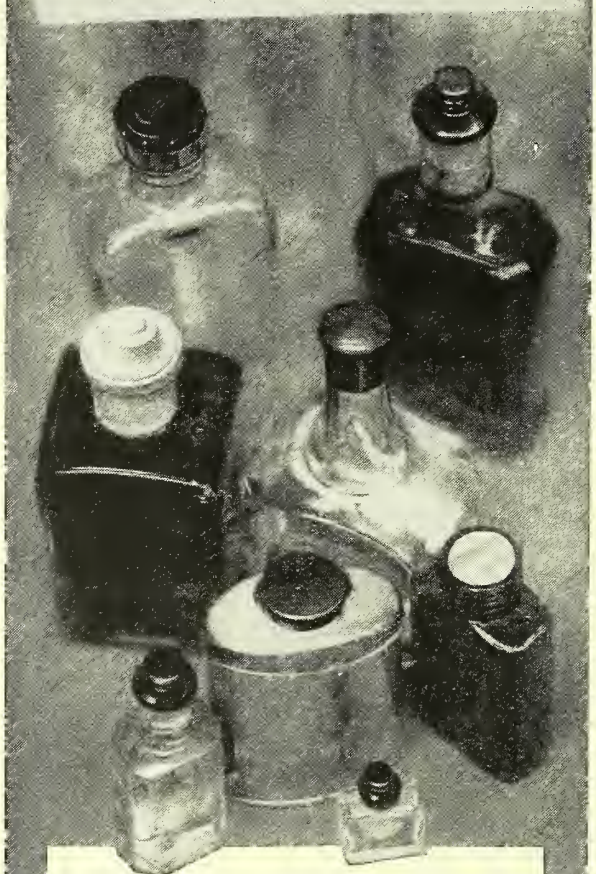
Telephone : Hop 2422
Telegrams : "Ushenspuna, London"

ROBERT BLACKIE

SHEN WORKS, TOWER BRIDGE RD., LONDON, S.E.1



VISKAPS



The ORIGINAL VISCOSE BOTTLE CAPSULES
ensure security, hygiene and an attractive finish to every bottle.

VISKAPS seal and mould themselves to the contour of almost any bottle and stopper. Supplied in Wet or Dry form.

VISKAPS can be printed with lettering or design in fast ink.

VISKAPS can be dyed to suit any colour scheme.

VISKRINGS are similar to VISKAPS except that they leave the top of the closure open, thereby allowing any printing or device to be seen.

THE VISCOSE DEVELOPMENT CO., LTD., BROMLEY, Kent.
Manufacturers of the famous VISKAPS for over 30 years.

INSTITUTE OF HYGIENE
INCORPORATED BY ROYAL CHARTER
CERTIFICATE AWARDED IN RESPECT OF
DORSELLA MILK FOOD

ENGLISH DRIED MILK

Enquiries are solicited for the following:

FULL CREAM "DORSELLA" DRIED MILK
HALF CREAM
SEPARATED "PARAGON"
CASUMEN, SOLUBLE MILK PROTEID
SWEETWHEY, CRYSTALS or POWDER
KENCREAM FOR PUPPIES
UNITA (Dorsella and Casumen)
DRIED BUTTERMILK
Supplied in Bulk, Tins or Cartons

Quotations and samples gladly sent on request.

PRIDEAUX'S, LTD.,
MOTCOMBE, SHAFTESBURY, DORSET
Telephone : Shaftesbury 4

Corks

OF EVERY DESCRIPTION

Send us your Enquiries, and compare our prices.

WHOLESALE & EXPORT

C. OLLEY & SONS, LTD.
ESTABLISHED 1844

Camperdown St., and Gt. Alie St., London, E.1
Tel. No.: Royal 2868. Tel. Add.: "Circumference, Ald, London."

METALLIC CAPSULES

for all purposes

The Tonkin Metallic Capsule Co.
Proprietors: C. Olley & Sons, Ltd.



Your reputation is never at stake if you recommend this perfect wine

We expressly ship this wine from our Spanish House, and offer this full duty fine old

Invalid Sherry

with our full confidence. It has an unrivalled bouquet and flavour, and immediately appeals to discriminating taste. If you would care for a sample and our prices write to

LAMB & WATT LTD.
WINE MERCHANTS
LIVERPOOL, 3



TRY A MASON'S WINDOW DISPLAY AT OUR EXPENSE

To those customers who allow us the use of their windows we offer 5/– for their opening order for 6 dozen MASON'S EXTRACT OF HERBS (or 10/– for 12 dozen).

The window display is most attractive and perfectly simple and can be fixed up in a couple of minutes

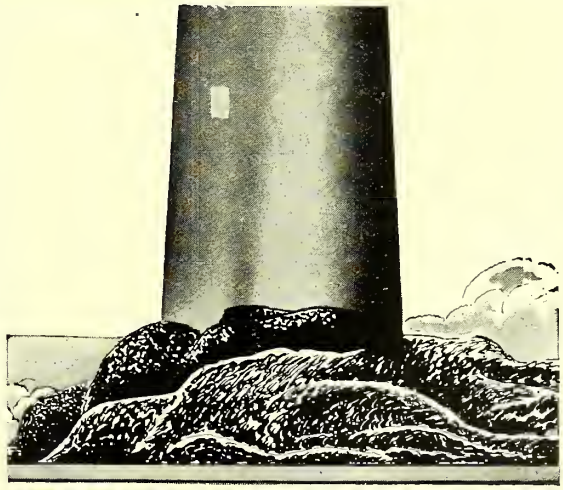
GOOD! IT'S MASON'S

Apply NEWBALL & MASON LTD., NOTTINGHAM

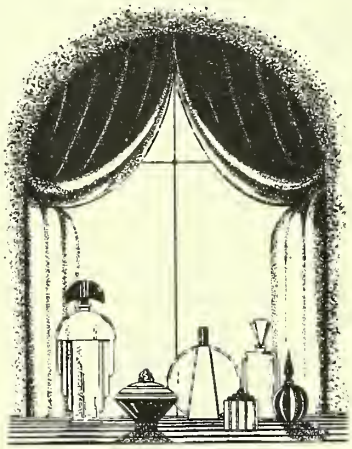
SAFETY



● **The consistent high standard of Lambert's Caramel (Sacc. Ust.) has been maintained for 55 years, and has inspired our Customers with a feeling of the utmost SAFETY in all their dealings with the House of Lambert.**



LLAMBERT & C
London Office - 4, PERCY STREET, W.1. Telephone MUSEUM 6102
Works - UXBRIDGE

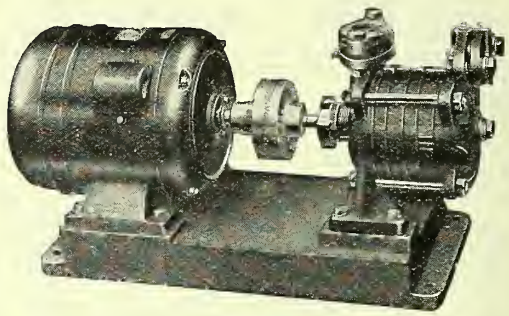


Designers & Makers of Quality Glassware for Perfumery.

ESTABLISHED 1826

WOOD BROS. GLASS Co LIMITED

BARNSLEY ENGLAND



This SELF-PRIMING PUMP

stands unrivalled for dealing with vapourising liquids and oils, and has substantial Suction Lift.

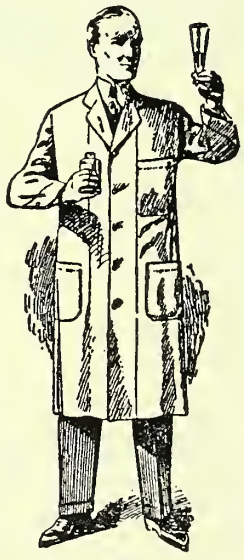
There is also a Mopump for every pumping purpose

Send for list 322.

RHODES, BRYDON & YOUATT LTD.
Stockport England.

GARDINER & CO. (THE SCOTCH HOUSE) LTD.
1, 3, 5 Commercial Rd., London, E.1
Phone: BIShopsgate 6751

PROTECTIVE CLOTHING
of Every Kind; Moderate Prices



Garments well tailored

COATS. Long (as illus.) White Drill, 5/11, 7/6, 9/6, 12/6. Khaki, 5/11, 6/11, 8/6, 9/6, 13/6. Grey, 7/6, 9/6, 11/6. Black, 14/6.

JACKETS. White Drill, 4/6, 5/6, 7/11, Grey, 6/11. Khaki, 7/6, 9/11. Black Poplin, 12/6.

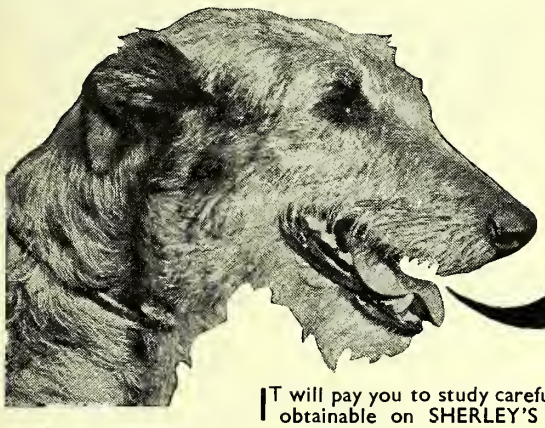
DENTISTS' COATS. Button on Shoulder, Three-Quarter length, Fine White Drill, 12/6, 14/6, 16/6.

LADIES' COATS. Crossover Style, with belt. White, 5/11, 7/11, 10/6. Khaki, 8/11. Coat style, with belt. White, 8/11, 10/6, 12/6. Any colour or design to order. Patterns and illustrated price list on application.

Special Prices for Quantities

Special attention to Post Orders. State Chest Measure and height. Orders for 20/- post free. Cash refunded if not approved. If not A/C, goods sent C.O.D. or on approved reference.

Branches throughout London



72·8% PROFIT ON COST

Sherley's Tonic and Condition Powders

IT will pay you to study carefully the excellent terms obtainable on SHERLEY'S Tonic and Condition Powders and **see how much you gain.**
There is always a big demand for this quick and ready seller.

2½% Discount on £2 Parcels Plus a further 5% for Window Display

A £2 parcel of Sherley's Tonic and Condition Powders shows a profit on cost of no less than 72·8%. You can make up a £2 order consisting entirely of Tonic and Condition Powders, or an assorted parcel of any of our foods and medicines which retail at prices not exceeding 6/-. Moreover, all Tonic and Condition Powders included in £2 parcels are invoiced at the special quantity prices quoted alongside, irrespective of the quantity ordered.

Thus the profit on Tonic and Condition Powders, when forming part of a £2 parcel, is still at the rate of 72·8% on outlay.

Make up a £2 parcel today! An excellent range of Show Material is available and orders may be booked direct or through your usual wholesaler.

CUT THIS OUT FOR REFERENCE

RETAIL	TRADE
6d. 9 Powders	4/- per dozen 3/9 per dozen for 2 dozen or over, or for any quantity included in £2 parcels
1'3 24 Powders	10/- per dozen 9/4½ per doz. for 1 doz. or over, or for any quantity included in £2 parcels
2'6 54 Powders	20/- per dozen 18/9 per doz. for 1 doz. or over, or for any quantity included in £2 parcels

SHERLEY'S
Tonic and Condition Powders

In 3 strengths for small, medium and large dogs.

A. F. Sherley & Co., Ltd., 18 Marshalsea Road, London, S.E.1

Don't let Business go to the dogs!



Wherever there are rats there is an opportunity for you to do more business by selling Rodine. Stock this famous raticide and let the public know that you do by using the striking window and counter display material which we supply.

Stock & Display

RODINE

THE PROFITABLE RAT KILLER

Retails in tins 7½d. & 1/3

Sole Makers:
THOMAS HARLEY, LTD., Rodine Works, Perth, Scotland

Why CATALINE Pays to Stock

BECAUSE it enjoys the largest sale of any Cattle Medicine Preparation and is on the **P.A.T.A.**

BECAUSE it is consistently advertised and all advertisements refer to the Chemist as the source of supply.

BECAUSE it is well packed, does what it is advertised to do, and shows the trade a satisfactory profit.

BECAUSE we do not employ travellers to call on Farmers or solicit orders at cattle fairs or markets.

One size, retailed at face value, viz.: 3/9 per bott.

Cash with order terms:

1 doz. **36/-**, 3 doz. at **35/6**, 6 doz. at **35/-**, 12 doz. at **34/6** per doz.
CARR. PAID. CASES FREE.

Stocked by most Wholesale Houses.

THE CATALINE CO., LTD., Bristol



The famous "Town Talk" Liquid Silver Polish, Silver Plate Cloth, Liquid Pewter Polish, Chromium Plate Cloth, and Cut Glass Cloth, afford you five ways to a woman's purse. They are consistently advertised in women's newspapers and journals, and their qualities make them quick-selling, repeat-order lines.

Push the "Town Talk" 5, they yield a good profit and bring customers into your shop.

ORDER DIRECT OR FROM

MANCHESTER: James Woolley Sons & Co., Ltd.
LIVERPOOL: Ayrton, Saunders & Co., Ltd. Brooks & Warburton, Ltd.
LEEDS: Goodall, Backhouse & Co.
LONDON: May, Roberts & Co., Ltd.
LEICESTER: E. H. Butler & Son.

THE TOWN TALK POLISH CO. MANCHESTER



Free Foot Hospital—connected with the National School of Chiropody, Manchester—Largest Foot Clinic in Europe.

THE NATIONAL SCHOOL OF CHIROPODY, now established over four years, gives a most comprehensive training in both theory and practice. Lectures are given by medical men experienced in teaching lay students. Practical training is provided in the Hospital Clinics, and each student must treat over 600 cases under supervision.

Enterprising Chemists who have opened Chiropody Departments are able to give:

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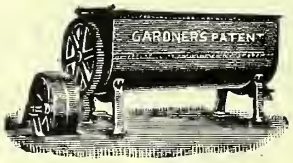
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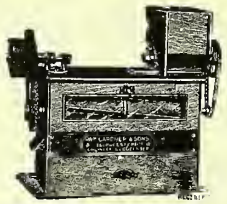
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PARADE OF ELEVEN NEW SHOPS.—Lovely living accommodation; low rent; all Staybrite steel fronts; one suitable for a Chemist. Apply Station Estate Office, Prittlewell, Southend-on-Sea.

APARTMENTS.

THE HAMPDEN RESIDENTIAL CLUB

FOR GENTLEMEN, Hampden Street, N.W.1. Close to King's Cross and Euston. 300 Bedrooms. 12s. 6d. to 25s. per week, including bath, attendance and boot cleaning. All meals à la carte in dining room. Moderate tariff. Large Club Rooms, Library, Billiards Room, Reading Room and Study for Students. Illustrated Prospectus from Secretary. Euston 2244/5.

WINDOW-DRESSING.

MANUFACTURERS AND RETAILERS.—Experienced Display Man, with successful Sales-Producing Records, is prepared to arrange Business-Pulling Displays for those firms requiring occasional service. Jackman, 91 Woodyates Road, Lee, S.E.12. (Lee Green 1194.)

AGENCIES.

PHARMACIST, long experience Retail and Wholesale Drug Trade, is open to accept Agencies for reliable lines in the Drug and Toilet Trade; calling on Chemists, Stores and High-class Hairdressers, Durham, Northumberland, Westmorland, Cumberland, North Yorkshire and Southern Scotland; own car; part expenses and commission. Apply R. Hardy, 12 Holmwood Avenue, Monkseaton, Northumberland.

PARTNERSHIPS.

CAPITAL required up to £400, extending Wholesale Business; consider partnership; London. 248/4, Office of this Paper.

WONDERFUL Opportunity for Chemist as Partner with enterprising Unqualified; Essex; established 2 years; population 3,000, increasing; 4 Doctors, 4 grocers, 3 butchers; no opposition; small capital. Also elderly Chemist as cover; low wage and commission. Write 247/27, Office of this Paper.

NAMES AND ADDRESSES.

When sending advertisements for any of the sections in this Supplement, advertisers—as a guarantee of good faith and not necessarily for publication—should always give their names and addresses. It sometimes occurs that this rule is not followed and delay and disappointment ensue. Strict attention to this detail will be appreciated.

MANUFACTURING LICENCE

for well proved special pharmaceutical preparations to be conferred for

GREAT BRITAIN AND DOMINIONS

Apply to—

A. 1527 c/o ALA Agentur, Bremen, Germany

SITUATIONS OPEN.

RETAIL (HOME).

6s. for 40 words or less ; 6d. for every additional 10 words or less, prepaid. (Box No., 1s. extra.)

BRISTOL.—Unqualified Junior required; quick Counter and Dispensing. Apply, with full particulars, 266/631, Office of this Paper.

DURHAM COUNTY HOSPITAL, DURHAM.

PHARMACIST, fully Qualified, required; practical knowledge of Bio-Chemistry desirable. Applications, stating age and experience, to be sent to the undersigned, with copies of three recent testimonials, not later than Thursday, September 12.

NORMAN BROWN,
Secretary.

LONDON.—Unqualified Assistants, lady and gent., for middle-class quick cash trade and N.H.I. Apply with full particulars of experience, stating age, height, salary required, and when at liberty, Marshalls, Chemists, 78 High Street, Kingsland, E.8.

LONDON, N.—Young Lady Assistant (Unqualified) required for general Counter work, Dispensing, etc. State full particulars to 247/25, Office of this Paper.

LONDON, N.—Smart Junior, male, wanted, for good-class Dispensing and Photographic business. Full particulars, with photo and salary required, 246/47, Office of this Paper..

LONDON, W.—Manager wanted, September 30, married; house accommodation; young, smart, understand Window-dressing, tactful Salesman with undeniable references; permanency; salary and commission; personal interview desired. 246/3, Office of this Paper.

MANCHESTER.—Unqualified Assistant required (age about 30); must be experienced in all its branches; reliable and capable to take charge; permanency for suitable man. State age, single or married, salary required, full particulars. Apply 247/24, Office of this Paper.

METROPOLITAN HOSPITAL, KINGSLAND ROAD, LONDON, E.8.

REQUIRED, Assistant in Hospital Pharmacy. Applications, stating age, qualifications, experience, salary required, etc., with not more than three testimonials (copies), to be forwarded to the undersigned forthwith. Geo. W. Cooling, Secretary and House Governor.

NEAR Croydon.—Young Qualified Assistant as Locum for fortnight; reliable Dispenser; to start September 16. Apply, giving references, to 246/34, Office of this Paper.

SOUTH COAST.—Elderly Qualified Assistant required for Middle-class Business; easy hours. State salary and experience, 245/24, Office of this Paper.

STOCKPORT.—Wanted, young Unqualified Assistant, male, single; Outdoors; just out of apprenticeship preferred; industrial district. Send all usual particulars, references, salary required and when disengaged. Applications not answered in seven days declined with thanks. 248/3, Office of this Paper.

SURREY.—Manager, married, for country branch at the end of September; must be accustomed to good-class trade; nice house attached. Full particulars in first letter of age, experience, and references. Applications not answered in 7 days respectfully declined. 245/13, Office of this Paper.

THE WILLESDEN GENERAL HOSPITAL,
HARLESDEN ROAD, N.W.10.

A VACANCY has occurred for a Qualified Assistant (female) in the Dispensary; salary commencing at £156 per annum, with usual emoluments; federated superannuation scheme in force.

Previous Hospital experience desirable. Applications, with full details, to reach the Secretary of the Hospital not later than 9 a.m. on Monday, September 16, 1935.

A JUNIOR Unqualified Assistant wanted at once; give particulars of age, experience and salary required; applications not answered in 3 days respectfully declined. Wootton & Webb, Ltd., 20 George Street, Luton.

A QUALIFIED Assistant required. Applications, stating age, experience, and salary expected, to be sent to the Managing Secretary, Gravesend Co-operative Society, Ltd., 3 Harmer Street, Gravesend.

A YOUNG Qualified Assistant required for one week, commencing September 30, in a Light Retail Business 8 miles from Manchester (bus and train services). Particulars, salary required, and references, to "Maltex," Holly House, Liverpool Road, Cadishead.

A YOUNG Qualified Man required to Manage Good-class Branch at Seaside, near Eastbourne. Please write, stating age, height, experience and salary required, with photo if possible, Arthur Mills (Chemists), Ltd., Bay Road, Pevensey Bay, Sussex.

BENTALLS OF KINGSTON require Qualified Chemist; woman preferred, but not essential; full knowledge of, and able to control, Drug and Surgical Department; no Dispensing. Write, giving full particulars of experience, age and salary required, to the General Manager.

BROWNS CHEMISTS (STOKE-ON-TRENT), LTD., have a vacancy for a young Improver; local preferred. Apply 27 Stoke Road, Shelton, Stoke-on-Trent.

GENTLEMAN of good address, young, as Unqualified Assistant; smart appearance and pleasing manner essential; experienced in sales, high-class Ladies' Toilet, Cyclax, Innoxa, &c.; a first-class Dispenser. Interview essential; Full experience, salary; no stamped envelope, Leonard Matthews, 722 High Road, Leytonstone, Essex.

GENTLEMANLY Assistant required immediately as Junior; must be accurate and neat Dispenser and good Counterman; state full particulars in first letter, with salary required. Williams, Chemist, Wellsway, Bath.

IMPROVER, immediately; moderate salary; state experience, height, references, etc.; applicants if in London an interview suggested, post applicants unanswered in 3 days declined with thanks. R. H. Kerr, M.P.S., 442 Uxbridge Road, London, W.12.

JUNIOR Assistant.—A first-class opportunity for a smart young Assistant to gain experience in a busy good-class Pharmacy; must be quick, accurate, tidy, willing worker and of pleasant manner; £2 per week; permanency. W. M. Nicoll, proprietor, Peebles, Chemists, 2 High Street, Dorking, Surrey.

JUNIOR Assistant (Male) (outdoors) for good-class business, at once; with Photographic knowledge; give full particulars, age, height and salary required, with photo if possible. H. S. Smith, "Lauriston," North Parade, Horsham.

JUNIOR Assistant (male) wanted end of month; must be quick, accurate Dispenser, good Window-dresser, with an all-round knowledge of the trade; permanency. State salary and full particulars in first letter. G. S., 165 Edgware Road, Hyde Park, W.2.

JUNIOR or Improver (male) for Light Retail, with N.H.I. Dispensing. Full particulars, with salary required, to Edwards & Adams, Midsomer Norton, nr. Bath.

JUNIOR or Improver (male) wanted; good Window-dresser and Dispenser; state salary required. Greenwood, 159 Church Road, Yardley, Birmingham.

LADY Assistant, Apoth. Hall or Unqualified, required by Chemist, North Wales. Give particulars age, experience, etc., and photo if possible, to 247/14, Office of this Paper.

LADY Assistant, Qualified or Unqualified; full particulars experience and salary required; quick and accurate Dispenser. 'Phone Enfield 2317 for interview, H. Temperton.

LADY Assistant, Unqualified, required. Please state full particulars. Applications not answered within 5 days are declined with thanks. A. J. Dodd, 128 Myddleton Road, N.22.

LOCUM, Qualified, one week, Monday, September 30, to Saturday, October 5, inclusive; state terms, age and reference; Southend-on-Sea. 247/11, Office of this Paper.

LOCUM Wanted, September 18 to 25 inclusive; usual particulars. Collitt, Chemist, Holland-on-Sea, Clacton, Essex.

MANAGER for Light Retail newly-established business in S.E. Suburb, 15 miles from town. Give full particulars of experience and state salary required. 247/9, Office of this Paper.

MANAGER, M.P.S., for quick Retail and N.H.I. business; married man between 30 and 40 preferred; must be reliable Dispenser, good Window-dresser and Salesman; please state full particulars experience, references, salary expected and photo. Cartwrights, Chemists, 69 Leytonstone Road, E.15.

M.P.S. WANTED, South London, progressive position; also a post to suit a middle-aged Gentleman or Lady; easy hours but a permanency. Full details to 247/10, Office of this Paper.

PART-TIME.—Male Assistant; Tuesday, Wednesday, Friday, 5.30 p.m. to 8.30 p.m.; Saturday, 5.30 p.m. to 9.0 p.m.; alternate Sundays 6 p.m. to 8 p.m. State age, experience and salary required to Jones & Co., Chemist, 161 New Cross Road, London, S.E.14.

PHARMACIST, with Optical Qualification, required as Manager for a Good-class Business in the Midlands; married; good living accommodation above shop. Full particulars in first letter, age, height, experience and salary expected. 266/639, Office of this Paper.

QUALIFIED Assistant, by September 16, permanency if suitable, for N.H.I. Dispensing and Counter (25-40); London, E.; male; good references; please state salary. "Moderate," Drug Stores, 39 Devons Road, Bow, E.3.

QUALIFIED Assistant; South-east Coast; permanency; Salary £3 5s. plus commission. Kindly state age, experience, &c., photo or snap if possible, which will be returned. 246/27, Office of this Paper.

QUALIFIED Assistant wanted, young Lady or Gentleman (Unqualified, with good Dispensing experience, would be considered); duties: mainly Dispensing; photo and usual particulars to Fairbairn, Chemist, Henley-on-Thames.

QUALIFIED Man wanted, to Manage Branch; a knowledge of Optics an advantage but not essential. Shackletons Cash Chemists, Ltd., Great West Road, Lampton, Hounslow, Middx.

QUALIFIED Manager; steady and industrious; willing to invest £500; to take charge of old-established Pharmacy on S.E. Coast; position arises owing to ill-health of present proprietor; exceptionally good opportunity for right man. 266/621, Office of this Paper.

QUALIFIED Manager (30-40, married) wanted shortly; smart appearance and personality; capable building up new mixed-class Suburban Business; good Window-dresser, Prescriber, quick Dispenser; permanent progressive post to worker; knowledge Rexall advantage. All particulars, photo first letter, 245/22, Office of this Paper.

REQUIRED, Junior Assistant, High-class Dispensing and Perfumery, etc. (Store Trade); short hours, 8 to 6, Saturday closing, no Sunday duties. Full details, past experience, age, height, salary, photograph, Cater, Stoffell & Fortt, High Street, Bath.

REQUIRED on October 1st, permanency, Young Unqualified Male Assistant (19-22 years); good gentlemanly appearance for high-class Counter Trade. Write, stating experiences, photograph and refs. essential, and wages (live out), Gordon Morum, Chemist, Arcade, Guernsey, Channel Isles.

SMART Unqualified Assistant required (age 20-25, male), with good all-round experience. Write details of experience and salary required to Victoria Pharmacy, 7 Wilton Road, London, S.W.1.

UNQUALIFIED Assistant (male) required September 19; must be good Dispenser and Counterman; easy hours. Give full particulars as to age, height, salary required and previous experience in first letter, and whether passed Part I, White, 102 High Street, Ashford, Kent. Applications not answered in three days declined with thanks.

UNQUALIFIED Junior Assistant (male) required for good-class Family business; Dispensing, Photography and Window-dressing; state height, experience and salary required in first letter. Applications unanswered in one week respectfully declined. Stonham & Son, 70 Bank Street, Maidstone.

UNQUALIFIED Junior required, Leeds; position permanent and progressive. Full particulars in first letter; replies treated with strictest confidence. 245/4, Office of this Paper.

VACANCY.—Young lady, Unqualified, interested in Botanical Remedies, for progressive Herbal and Health Foods business, Surrey, 30 miles London; clean modern shop, well equipped; comfortable position for live conscientious worker of good personality. Age, salary and previous experience. 246/19, Office of this Paper.

WANTED at once.—Smart Unqualified Assistant for about 8 weeks; good all-round experience. Apply with full particulars to W. Windle, 8 Station Road, Swanage.

WANTED.—Chemist and Optician; main-road shop; expert Window-dresser. Watsons, 103 Woodgrange Road, E.7.

WANTED.—Immediately, smart Young Lady to take charge of Pharmacy Section of Departmental Store; must be fully Qualified; N.H.I. Prescriptions. Apply, with full particulars as to experience, age, wages required, General Manager, Witham Co-Operative Society, Ltd., High Street, Witham, Essex.

WANTED.—Qualified man or lady; working-class district. Write, stating wage, &c., 246/33, Office of this Paper.

YOUNG Lady, Unqualified, required for Counter work in London City business; must be good Window-dresser. Apply 266/637, Office of this Paper.

WHOLESALE.

A FEW Representatives calling upon Opticians; commission basis. 245/2, Office of this Paper.

AN Established Firm of Patent Medicine Proprietors, having a complete selling organisation, desire to take over the selling of advertised similar lines on an Agency basis, or amalgamations considered. 266/634, Office of this Paper.

EXPERIENCED Granulator required for Tablet Department of Manufacturing Chemists near London. Reply, giving full details of experience, stating age, and wages expected, 266/632, Office of this Paper.

GENTLEMEN selling to Chemists, Hairdressers and Stores, carrying other High-class lines, and who can handle a High-class range of Manicure Sets, complete with Polish, etc., are invited to send full particulars, with ground covered; most territories are vacant. 266/635, Office of this Paper.

JUNIOR Required by London Wholesale Druggists, with experience of Export Invoicing. State age, experience and salary required, to 266/636, Office of this Paper.

LIVE Representatives with established connections amongst Chemists, Hairdressers and Stores wanted. Write fully, 246/25, Office of this Paper.

OLIVE OIL.—Wanted, Travellers with good connection with Wholesale and Retail Trade for superior Oil with international reputation. Write in strict confidence to 245/16, Office of this Paper.

REPRESENTATIVES Wanted, London and Provinces, already calling on Chemists, to carry additional lines—one a food line—on liberal commission basis. References and details of experience required in writing to Dytex, 199 Upper Thames Street, London, E.C.4.

SMART Representative wanted by old-established firm for West Suburbs and Eastern Counties. Apply 266/638, Office of this Paper.

SUCCESSFUL Salesman; connection; handle commission quick-selling Toilet Proprietary stocked most Chemists. State territory covered, experience. P.C.B. 175/13, Office of this Paper.

TABLET Manufacture.—A vacancy occurs in London for an expert Manufacturer and Coater of Tablets, Pills, etc.; must be thoroughly conversant with all branches, including Sugar, Pearl, Gelatine and Silver Coating; only first-class men need apply. Full particulars of age, experience, salary expected and when disengaged, in first letter to 266/633, Office of this Paper.

SITUATIONS WANTED.

RETAIL (HOME).

A.A.A.—QUALIFIED, live Salesman, Window-dresser; West End experience; salary £4 10s. Advertiser, 54 Torrington Square, W.C.1.

A.A.—LOCUM or Permanency (full or part-time); Dispensing, Counter, Windows; unregistered. Harries, 30 Princes Square, S.E.11.

A QUALIFIED Gentleman of experience, personality and initiative seeks Managership in High-class County Town Pharmacy; unimpeachable references. 245/6, Office of this Paper.

AN Experienced Assistant, accustomed to High-class Retail, with heavy Dispensing, desires good permanency in September; London district preferred; excellent references; 5 ft. 10 in. "Spes," 9 Shandon Road, Clapham Park, S.W.4.

AS Manager; 15 years in management; neglected business pleasure to work up. "M.P.S.," 153 Rendlesham Road, E.5.

ASSISTANT (22½), Unqualified, seeks change; good all-round experience; excellent references; tall. 246/53, Office of this Paper.

ASSISTANT (21), Referred Pharmacy, seeks progressive post; tall, smart appearance, reliable and conscientious worker; excellent high-class Dispensing and Retail experience. Osborn, Bay Tree Cottage, Loudwater, Bucks.

ASSISTANT; Unqualified; 11 years last situation; Dispensing and Counter work; disengaged. W., 58 Northcroft Road, W.13.

ELDERLY Qualified Chemist, reliable, disengaged next week, desires post, Superintend or Locum; short hours, light duties, terms reasonable. 247/4, Office of this Paper.

EMPLOYER wishes to recommend Qualified Assistant as Manager or Assistant with whose services he regretfully has to dispense. 246/40, Office of this Paper.

F.S.M.C. (26), Hospital trained, Unqualified in Pharmacy, seeks post, London or near; own Optical equipment if required. Stephens, 84 Stowe Road, W.12.

HERBAL and Surgical Stores, as Manager or Assistant, with limited capital; view to purchase or investment; well up all branches; 3 years present situation; very active (age 45); married; disengaged one week; London or near. 246/54, Office of this Paper.

LADY (Apothecaries Hall) Assistant Dispenser to Chemist or Doctor; young, disengaged. Powell, 56 Derlwyn Street, New Tredegar, Mon.

LADY (Apothecaries Hall) desires post with Chemist; Brighton or South Coast preferred; 16½ years last post. 248/1, Office of this Paper.

LADY as Assistant Dispenser to Doctor or Chemist; many years' experience; willing to assist in light household duties; middle-aged; Unqualified; seaside or country. M. S., 62 Padwell Road, Southampton.

LADY Dispenser-Bookkeeper (Hall) (23) desires post with Doctor or Chemist; Kent district preferred. 246/6, Office of this Paper.

LADY Dispenser desires post; Hall Qualification; experienced; knowledge Book-keeping, Typing; Brighton or near. 8 Prestonville Road, Brighton.

LADY Dispenser (Hall), 4 years' experience, seeks post with Doctor or Institution preferred. 246/48, Office of this Paper.

LADY, Unqualified, requires situation, preferably South-West London; knowledge of Dispensing, Window-dressing, Counter, some Book-keeping; London experience. 245/10, Office of this Paper.

LOCUM, free September 7; Qualified, good experience; London preferred. Phone Uxbridge 706 or write c/o John, 3 The Parade, Cowley, Uxbridge.

LOCUM or Permanency; Qualified; tall (39); all-round experience; desires post; disengaged September 7. "Statim," 98 Newcomen Road, Wellingborough.

LOCUM, Unregistered (middle-aged), fully experienced all branches; London or near; disengaged. "Amidol," 3 St. Vincents Road, Westcliff-on-Sea, Essex.

LONDON OR NEAR.—Qualified (30) desires Managership; free September 9; had own business for past few years; thoroughly reliable; business builder. Phone Clissold 3541 after 6.30 p.m. or write c/o 76 Downs Park Road, Dalston, E.8.

MANAGER or Locum; all-round experience; late Savory & Moore. J. L. Davies, 164 Clapham Road, S.W. Telephone Reliance 2741.

M.P.S. DESIRES Managership, London or near; West End experience; middle-aged; good appearance; excellent references. 246/50, Office of this Paper.

M.P.S., F.B.O.A., with business acumen, elderly, energetic, seeks position, Managerial; country; disengaged shortly. "E.," 59 Bayford Road, Littlehampton.

M.P.S. (55), active; thoroughly experienced all types of business; desires permanency or locum; London or near; highest references; personality an asset. "Chemist," 86 Elmstead Avenue, Wembley.

M.P.S. (39), married, desires position, South Coast or London, in October; managed own business last 2 years. 247/101, Office of this Paper.

PART-TIME, Qualified, Square-trained (23), desires to continue studies in evenings; London preferred; excellent references. 247/12, Office of this Paper.

PHARMACIST, thoroughly experienced, reliable, capable business builder, desires post as Manager with view purchase; West Sussex preferred; interview; available month's notice. "M.P.S.," c/o G.P.O., Bognor Regis.

PHARMACIST, wide experience Retail and Multiple Pharmacy, desires Administrative Post progressive company. P.C.B. 175/11, Office of this Paper.

PHARMACIST (24), 6 ft., desires post as Manager or Assistant in High-class Business; West End experience; Toilets and Prescribing; free September 14. P.C.B. 175/9, Office of this Paper.

QUALIFIED (33), single, desires permanency; Hospital, Stores, Private and Superintending experience; neat Dispenser and Photographer; keen Window-dresser. "Solanum," c/o Whitelam, Chemist, Newlands Avenue, Hull.

QUALIFIED (26), with wide experience, seeks Qualified post; free September 29; good references. "Chemist," 133 Clifton Road, Rugby.

UNQUALIFIED Assistant (23) desires part-time situation in good-class business in London; all-round experience, including West End. N. H. R., c/o Liston's, 280 Fulham Road, South Kensington. Flax. 7419.

UNQUALIFIED Lady Assistant; Counter, Windows, Dispensing; temporary or permanent; London only. "Assistant," 22 Fairfax Road, Bedford Park, W.4.

UNQUALIFIED seeks situation, Retail, Wholesale or Representative; experience each branch (present situation six years); excellent references available. Goodleff, Charnwood, Beachgrove Road, Fishponds, Bristol.

UNQUALIFIED (35) seeks situation; Locum or Permanent; keen Salesman, Counterhand, accurate Dispenser, Photographics and good Window-dresser; good references. Marshall, 28 Ambler Road, Finsbury Park, N.4.

YOUNG Gentleman wishes to become Apprenticed to a high-class Pharmacy or Manufacturing Chemist; all necessary qualifications (Matric. 1934); sound knowledge of French and German. 246/15, Office of this Paper.

YOUNG Lady (age 21); good Counterhand and experienced in Optics. Sunray, 82 Lower Marsh, Waterloo, S.E.1.

YOUNG Man of good appearance and education, fluent French, seeks Apprenticeship in Good-class Pharmacy; West End or City preferred. S. Hersh, 15 Overlea Road, E.5.

WHOLESALE.

A CAPABLE, diligent, well-known gentleman (50) desires re-engagement to represent a firm of unassailable integrity and principles; professional propaganda and/or trade work; own car; Hants and West; sound credentials. "Stability," c/o General Gordon Hotel, Weymouth.

A LIVE Representative in Pack Pharmaceuticals, covering South London, first-class connection, desires change with house of repute. H., 24 Lovelace Avenue, Southborough Park, Bromley.

ASSISTANT, experienced in Manufacture Toilet and Medicinal Preparations; also Wet and Dry Counterwork. E. R. L., 47 Waverley Avenue, Twickenham.

B.SC. (Lond.), Hons. Chemistry; knowledge Scientific French and German; two years' Certificate Chemical Engineering; some experience Cosmetics, etc.; requires further experience First-class Firm. L. T. Hogarth, 129 Heath Park Avenue, Cardiff.

COSMETICS AND TOILET.—An expert in Cosmetics, Beauty Culture and Toilet Preparations, wishes to join a progressive firm where his experience and capabilities for formulation will meet with recognition; Perfume Compounding a speciality; sole charge or share responsibilities. 246/12, Office of this Paper.

EXPERIENCED Representative, M.P.S.; connection London, Southern England, all Ireland; free end September for responsible position; specially successful Medical Propagandist and Retail Salesman; thorough knowledge of Biological and Bacterial Products; conversant with American methods. "Advance," 15 Lampton Road, Hounslow.

EXPERIENCED successful Medical Propagandist and first-class trades Salesman; resident in Edinburgh; highest credentials. "Enterprise," 26 Shandwick Road, Edinburgh.

FOREWOMAN seeks position in factory; used controlling large staff of female labour; experienced Labelling and Wrapping. M. B., 47 Lowden Road, S.E.24.

MEDICAL Representation, Qualified Pharmacist, young, desires to join first-class house; experienced Propaganda; requisite appearance, personality, initiative; knowledge Therapeutics; administrative and interviewing ability; drive car; resident Edinburgh; commence immediately. 248/2, Office of this Paper.

NATIONALLY Advertised Proprietary Representative requires another; Notts, Derby, West Riding. 246/29, Office of this Paper.

CLEAR OUT—your Old or Damaged Stock of Photo Goods.
Why keep them any longer? Turn them into CASH.
I GIVE BEST PRICES for Old Films (damaged, fogged or expired dates); Packet Papers. Cards (any sizes). Old Photo Goods or Cameras. Bromide Papers. Plates (all sizes, all makes). Send any goods in the photo line. I buy all, good or bad. Cash per return. A good price for all Cameras. Send them along.
S. E. HACKETT, 23 July Road, Liverpool

REPRESENTATIVE (26); 350 live accounts; 91 opened last two months; Chemists, Hairdressers and Stores; Midlands; own car; what offers? 246/55, Office of this Paper.

SALES Manager to large Pharmaceutical house with national advertising and distribution experience seeks similar post; Qualified; excellent recommendations. P.C.B. 175/5, Office of this Paper.

STORES, Order and Despatch Controller (age 26 years); 10 years Perfumery and Toilet Soap trade (Sales, Office and Works); experienced Staff Control, Packing Costs and Management; close contact with production; offers services. 247/26, Office of this Paper.

TABLET and Pill Coater seeks situation; 20 years' experience. G. H. T., 58 Curzon Road, Ealing, W.5.

TABLET-MAKER, first-class man, desires change; fully experienced in all branches of the trade. P.C.B. 175/12, Office of this Paper.

TABLETS, Pills, disengaged, seeks position; good references; first-class experience. J. Glyn, 13 Banville Grove, London, S.E.16.

FOR SALE.

(Articles to the value of £5-£50.)

CASH REGISTERS, National, all kinds; Total Adders, Ticket Issuers, Printers, etc.; Box Cash Tills, fully guaranteed; no reasonable offer refused; all reliable makes bought, sold, exchanged, repaired; easy terms. Write or call, Amalgamated Business Machines, Ltd., 78 Long Lane, Smithfield, E.C.1 ('Phone National 0674). Satisfaction guaranteed. D. Deiches, Managing Director.

CHEMIST'S Stock and Fixtures of old-established Business including Wines); owner retiring, premises sold; must be cleared; Counters (Showcase Fronts), Wall and Counter Showcases, Dispensing Screen, Shop Rounds, Nest Drawers, Jars, Mirrors, National Cash Register, Glass Shelves, Carboys, Avery Weighing and Measuring Machine; offers invited for whole or parts; low prices for prompt cash. Aspinall, Chemist, Ashton-in-Makerfield, near Wigan.

NATIONAL Cash Register going at bargain price; adds cash and prints details; perfect. Write R. Bull, "Dalemain," Pickhurst Lane, Hayes, Kent.

MISCELLANEOUS.

10s. for 60 words or less; 1s. for every additional 10 words or less, prepaid. (Box No., 1s. extra.)

CHEMISTS' FITTINGS.—We hold an immense stock of Drug Fittings, Dispensing Screens, Glass-fronted Counters, Perfumery Cases, Nests of Drawers, Wall Cases, Silent Salesmen, Upright and Flat Counter Cases, Plate Glass Counters, Cash Tills. Display Stands and Glass Shelves, etc., at competitive prices. F. MAUND & E. BERG (SHOWCASES), LTD., Shop Fitters and Shop Front Builders, 175/9 Old Street, London, E.C.1.

10 FT. Drug Fitting; 6 ft. Wall Case; 12 ft. Glass-fronted Counter, nests of Counter Drawers; 6 ft. Dispensing Screen and Counter; Counter Case; Personal Weighing Machine; Chair; all reconditioned and polished. PHILIP JOSEPHS & SONS, LTD., 90/92 St. John Street, Clerkenwell, E.C.1. Telephone: Clerkenwell 2191. "Pharmacy fitters for over a century."

£9—COMPLETE CHEMIST FITTINGS at any price you wish to pay. We have erected in our showrooms a Complete Chemist's Shop with Metal Shop Front, Window Backs, Correct Window Lighting, Signs and Modern Interior Fittings. Apply for Lists, D. MATTHEWS & SON, LTD., "The Liverpool Shop Fitters," 14 and 16 Manchester Street, Liverpool. Est. 1848.

EXCHANGE COLUMN.

OPENING Drug Store, important town, will show suitable goods on "Sale or Return." 246/14, Office of this Paper.

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The tenth edition of this, the most complete pharmaceutical formulary in the English language, is devoted to the official and semi-official preparations of practically every country in the world. This volume (published 1929) contains 1146 pages

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